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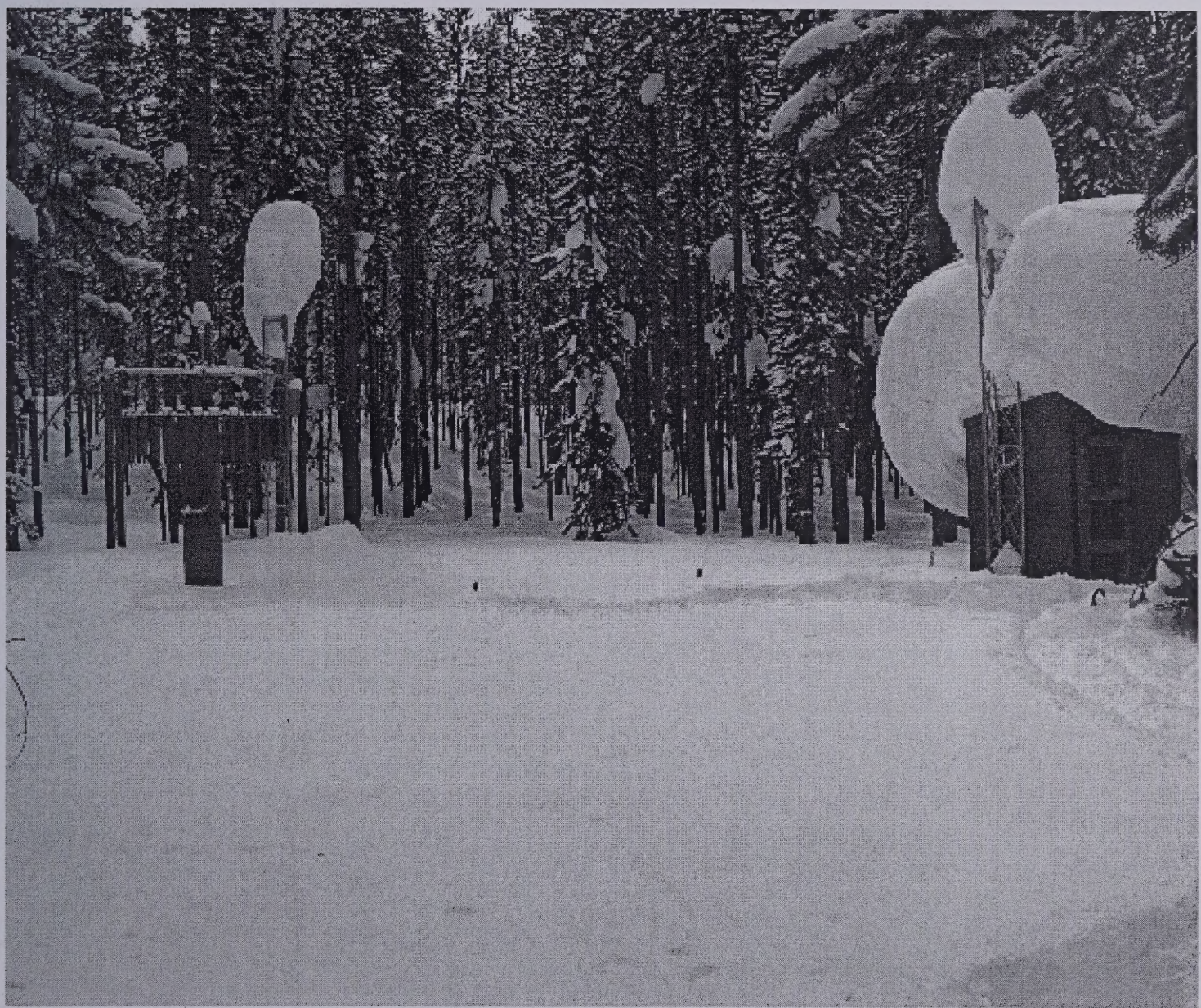
Natural Resources Conservation Service

Montana Water Supply Outlook Report April 1, 2010



Picture: Madison Plateau SNOTEL Site near West Yellowstone

Water Supply Outlook Report
and
Federal - State - Private
Cooperative Snow Surveys

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How forecasts are made

Most of the annual streamflow in the Western United States originates as snowfall that has accumulated high in the mountains during winter and early spring. As the snowpack accumulates, hydrologists estimate the runoff that will occur when it melts. Predictions are based on careful measurements of snow water equivalent at selected index points. Precipitation, temperature, soil moisture and antecedent streamflow data are combined with snowpack data to prepare runoff forecasts. Streamflow forecasts are coordinated by Natural Resources Conservation Service and National Weather Service hydrologists. This report presents a comprehensive picture of water supply conditions for areas dependent upon surface runoff. It includes selected streamflow forecasts, summarized snowpack and precipitation data, reservoir storage data, and narratives describing current conditions.

Snowpack data are obtained by using a combination of manual and automated SNOTEL measurement methods. Manual readings of snow depth and water equivalent are taken at locations called snow courses on a monthly or semi-monthly schedule during the winter. In addition, snow water equivalent, precipitation and temperature are monitored on a daily basis and transmitted via meteor burst telemetry to central data collection facilities. Both monthly and daily data are used to project snowmelt runoff.

Forecast uncertainty originates from two sources: (1) uncertainty of future hydrologic and climatic conditions, and (2) error in the forecasting procedure. To express the uncertainty in the most probable forecast, four additional forecasts are provided. The actual streamflow can be expected to exceed the most probable forecast 50% of the time. Similarly, the actual streamflow volume can be expected to exceed the 90% forecast volume 90% of the time. The same is true for the 70%, 30%, and 10% forecasts. Generally, the 90% and 70% forecasts reflect drier than normal hydrologic and climatic conditions; the 30% and 10% forecasts reflect wetter than normal conditions. As the forecast season progresses, a greater portion of the future hydrologic and climatic uncertainty will become known and the additional forecasts will move closer to the most probable forecast.

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Montana Water Supply Outlook Report as of April 1, 2010

The storms at the end of March and the first few days of April gave a boost to the snowpack in all river basins. The storms increased river basin snow water content values by three to eight percent. March was the fifth month in a row with below to well below average mountain precipitation.

Snowpack

Seasonal snowfall accumulation on April 1 for the Columbia is 96 percent; Missouri is 93 percent; and Yellowstone is 91 percent. State-wide mountain snow water content was 65 percent of average and 65 percent of last year. West of the Divide snowpack was 61 percent of average and 62 percent of last year. East of the Divide snowpack was 68 percent of average and 69 percent of last year.

RIVER BASIN	% OF AVERAGE	% OF LAST YEAR	MARCH % CHANGE
COLUMBIA	61	62	-4
KOOTENAI, MONTANA	62	64	-4
KOOTENAI, CANADA	68	85	-5
FLATHEAD, MONTANA	65	69	-6
FLATHEAD, CANADA	72	84	-7
UPPER CLARK FORK	64	60	-1
BITTERROOT	55	52	+3
LOWER CLARK FORK	54	58	-1
MISSOURI	69	69	-5
MISSOURI HEADWATERS	69	68	-2
JEFFERSON	70	68	-2
MADISON	63	65	-1
GALLATIN	73	72	-6
MISSOURI MAINSTEM	72	73	-10
HEADWATERS MAINSTEM	76	70	-2
SMITH-JUDITH-MUSSELSHELL	90	86	-13
SUN-TETON-MARIAS	50	55	-4
MILK (Bearpaw Mtns.)	71	60	---
ST. MARY	60	71	-10
ST. MARY & MILK	62	69	---
YELLOWSTONE	69	68	+1
UPPER YELLOWSTONE	67	63	-2
LOWER YELLOWSTONE	70	72	+5
STATEWIDE	65	65	-3

Precipitation

March mountain and valley precipitation across the state was 64 percent of average and 44 percent of last year, while the water year precipitation was 76 percent of average and 72 percent of last year. West of the Continental Divide, March mountain and valley precipitation was 75 percent of average and 53 percent of last year and the water year precipitation was 71 percent of average and 70 percent of last year. East of the Divide, March mountain and valley precipitation was 56 percent of average and 38 percent of last year and the water year precipitation was 80 percent of average and 73 percent of last year.

RIVER BASIN	MARCH % OF AVERAGE	WATER YEAR % OF AVERAGE
COLUMBIA	75	71
KOOTENAI	78	74
FLATHEAD	72	77
UPPER CLARK FORK	74	71
BITTERROOT	75	60
LOWER CLARK FORK	75	64
MISSOURI	56	80
JEFFERSON	62	74
MADISON	60	70
GALLATIN	71	81
MISSOURI MAINSTEM	54	95
SMITH-JUDITH-MUSSELSHELL	54	97
SUN-TETON-MARIAS	47	69
MILK	35	95
ST. MARY	77	75
YELLOWSTONE	70	74
UPPER YELLOWSTONE	58	72
LOWER YELLOWSTONE	87	77
STATEWIDE	64	76

Reservoirs

Major reservoir storages statewide were 104 percent of average and 112 percent of last year. Reservoir storage west of the Divide was 153 percent of average and 105 percent of last year. East of the Divide, reservoir storage was 92 percent of average and 115 percent of last year.

RIVER BASIN	% OF AVERAGE	% OF LAST YEAR
COLUMBIA	153	105
KOOTENAI	200	100
FLATHEAD	126	112
UPPER CLARK FORK	123	98
BITTERROOT	77	72
LOWER CLARK FORK	119	103
MISSOURI	90	116
JEFFERSON	110	124
MADISON	114	106
GALLATIN	143	103
MISSOURI MAINSTEM	89	117
SMITH-JUDITH-MUSSELSHELL	103	116
SUN-TETON-MARIAS	100	98
MILK	90	98
ST. MARY	96	57
YELLOWSTONE	119	102
UPPER YELLOWSTONE	111	96
LOWER YELLOWSTONE	119	102
STATEWIDE	104	112

Streamflow

State-wide, streamflow forecasts are 46 to 58 percent of average. West of the Divide streamflow forecasts are 48 to 58 percent of average and east of the Divide are 44 to 56 percent of average.

Very low streamflows are likely to occur in this summer, especially for streams and rivers without reservoir storage. River basins of most concern are the Bitterroot, Lower Clark Fork, Jefferson, Sun, Teton, and Marias. Timely rains and cool spring temperatures will be necessary to keep streamflows from reaching critically low flows to early in the season.

Below are averaged river basin streamflow forecast summaries for the period April 1 through July 31. THESE FORECASTS ASSUME NEAR NORMAL SPRING CONDITIONS AND DO NOT ACCOUNT FOR WELL BELOW AVERAGE (70% or less) OR WELL ABOVE AVERAGE (130% or more) SNOWMELT OR SPRING RAIN. Specific forecast probabilities are available in each individual River Basin Report.

RIVER BASIN	April-July THIS YEAR % OF AVERAGE	April-July LAST YEAR % OF AVERAGE
COLUMBIA	48 to 58	95 to 103
KOOTENAI	52 to 59	85 to 91
FLATHEAD	60 to 69	90 to 98
UPPER CLARK FORK	41 to 56	102 to 114
BITTERROOT	38 to 48	99 to 105
LOWER CLARK FORK	38 to 46	97 to 101
MISSOURI	41 to 54	83 to 98
JEFFERSON	34 to 46	89 to 105
MADISON	56 to 62	86 to 92
GALLATIN	61 to 71	97 to 106
MISSOURI MAINSTEM	39 to 52	86 to 99
SMITH-JUDITH-MUSSELSHELL	48 to 66	86 to 108
SUN-TETON-MARIAS	38 to 49	66 to 82
MILK	35 to 53	78 to 99
ST. MARY	65 to 71	83 to 91
YELLOWSTONE	49 to 61	91 to 102
UPPER YELLOWSTONE	57 to 66	93 to 101
LOWER YELLOWSTONE	38 to 53	87 to 103
STATEWIDE	46 to 58	89 to 101

Surface Water Supply Index

The Surface Water Supply Index (SWSI) is an indicator of surface water supply conditions for the spring and summer months. Water users that rely on mountain precipitation can use the index to evaluate seasonal surface water supplies. The SWSI accounts for mountain snowpack, mountain precipitation, streamflow, reservoir storage, and soil moisture.

SWSI RATING	SURFACE WATER CONDITION
+3.0 to +4.0	Extremely Wet
+2.0 to +3.0	Moderately Wet
+1.0 to +2.0	Slightly Wet
-1.0 to +1.0	Near Average
-1.0 to -2.0	Slightly Dry
-2.0 to -3.0	Moderately Dry
-3.0 to -4.0	Extremely Dry

This Year SWSI	Last Year SWSI	Basin
-3.2	-1.0	Tobacco River
-3.4	-0.9	Kootenai Ft. Steele to Libby Dam
-0.9	+1.6	Kootenai River below Libby Dam
-3.1	+1.7	Fisher River
-3.4	0.0	Yaak River
-3.4	-1.5	North Fork Flathead River
-3.6	-0.4	Middle FORK Flathead River
-0.7	+1.1	South Fork Flathead River
-2.6	+0.1	Flathead River at Columbia Falls
-1.4	+0.1	Swan River
-3.4	-0.7	Flathead River at Polson
----	-0.5	Mission Valley
----	+1.6	Little Bitterroot River
-2.5	+1.3	Clark Fork River above Milltown
-3.0	+1.6	Blackfoot River
-3.6	+1.4	Bitterroot River
-3.2	+1.6	Clark Fork River below Bitterroot River
-3.3	+0.1	Clark Fork River below Flathead River
-0.9	+0.2	Beaverhead River
-1.9	+1.0	Ruby River
-2.6	+1.3	Big Hole River
-1.8	+1.7	Boulder River (Jefferson)
-1.3	+1.8	Jefferson River
-2.8	+0.6	Madison River
-2.5	+1.2	Gallatin River
-2.6	+0.5	Missouri River above Canyon Ferry
-3.3	0.0	Missouri River below Canyon Ferry
-1.0	+0.6	Smith River
-3.9	-0.1	Sun River
-2.2	+0.4	Teton River
-2.6	-1.2	Birch/Dupuyer Creeks
+2.2	+0.3	Upper Judith River
-3.3	----	Marias River above Tiber
-2.7	----	Marias River below Tiber
+0.1	+1.2	Musselshell River
-1.5	----	Missouri River above Ft. Peck
-1.8	-1.9	Missouri River below Ft. Peck
-3.4	+0.1	St. Mary River
-0.9	+0.3	Milk River
-3.3	-0.9	Dearborn River near Craig
-3.4	+1.4	Yellowstone River above Livingston
-1.0	+1.8	Shields River
-2.7	+2.2	Boulder River (Yellowstone)
-3.3	+0.4	Stillwater River
-1.1	0.0	Rock/Red Lodge Creeks
-3.2	+1.4	Clarks Fork River
-3.3	+1.2	Yellowstone River above Bighorn River
-1.1	+0.6	Bighorn River below Bighorn Lake
-2.4	+1.2	Little Bighorn River
-2.3	+0.9	Yellowstone River below Bighorn River
-2.7	+2.6	Tongue River
-1.8	+1.8	Powder River

SNOTEL AND SNOW COURSE SUMMARY

APRIL 2010

SNOW COURSE	ELEVATION	DATE	SNOW DEPTH	WATER CONTENT	LAST YEAR	AVERAGE 71-00
ABUNDANCE LAKE	8800	3/28/10	46	14.2	23.6	20.6
ALBRO LAKE SNOTEL	8300	4/01/10	64	17.1	20.9	20.8
AMBROSE	6480	3/24/10	31	8.2	15.6	12.4
ARCH FALLS	7350	3/26/10	31	6.9	10.7	11.9
ASHLEY DIVIDE	4820	3/30/10	7	1.8	9.1	6.0
ASHLEY LAKE	4000	3/30/10	2	.6	6.2	5.5
BADGER PASS SNOTEL	6900	4/01/10	69	24.7	28.2	35.3
BANFIELD MTN SNOTEL	5600	4/01/10	36	10.0	20.0	19.8
BAREE CREEK	5500	3/30/10	67	22.7	35.6	43.1
BAREE MIDWAY	4600	3/30/10	53	17.7	31.0	33.0
BAREE TRAIL	3800	3/30/10	5	1.8	13.4	7.7
BARKER LAKES SNOTEL	8250	4/01/10	64	15.4	18.3	14.6
BASIN CREEK SNOTEL	7180	4/01/10	30	7.1	8.7	8.7
BASSOO PEAK	5150	3/29/10	14	4.3	9.3	9.7
BEAGLE SPGS SNOTEL	8850	4/01/10	41	9.8	10.7	9.3
BEAR BASIN	8150	3/29/10	53	16.4	20.6	20.4
BEAVER CREEK SNOTEL	7850	4/01/10	49	12.5	20.7	18.2
BERRY MEADOW	7000	3/29/10	17	4.3	7.4	7.4
BIG SNOWY	7150	3/30/10	63	23.0	13.2	20.2
BISSON CREEK SNOTEL	4920	4/01/10	29	9.2	10.3	9.9
BLACK BEAR SNOTEL	7950	4/01/10	78	23.4	36.3	39.8
BLACK MOUNTAIN	7750	3/24/10	25	11.8	15.1	14.6
BLACK PINE SNOTEL	7100	4/01/10	36	8.0	14.4	12.5
BLACKTAIL	5650	3/30/10	26	8.0	14.8	14.2
BLOODY DICK SNOTEL	7550	4/01/10	30	7.0	14.5	12.6
BLUE LAKE	5900	3/27/10	42	13.4	24.6	23.7
BOTS SOTS	7750	3/31/10	19	3.2	6.7	7.8
BOULDER MTN SNOTEL	7950	4/01/10	61	16.8	23.2	20.4
BOX CANYON SNOTEL	6700	4/01/10	23	6.2	13.8	10.4
BOXELDER CREEK	5100	3/25/10	19	4.9	6.9	7.6
BRACKETT CR SNOTEL	7320	4/01/10	67	20.5	22.0	21.5
BRANHAM LAKES	8850	3/30/10	78	26.2	30.2	28.9
BRISTOW CREEK	3900	3/29/10	4	1.5	11.0	8.4
BRUSH CREEK TIMBER	5000	3/29/10	9	3.8	15.0	8.1
BULL MOUNTAIN	6600	3/30/10	8	2.6	9.0	5.9
BURNT MTN SNOTEL	5880	4/01/10	12	3.8	6.9	6.2
CABIN CREEK	5200	4/01/10	3	.8	6.0	5.4
CALL ROAD	8050	3/28/10	30	7.2	9.5	11.9
CALVERT CR SNOTEL	6430	4/01/10	16	4.7	9.6	8.1
CAMP SENIA	7890	3/31/10	33	6.4	9.2	6.2
CARROT BASIN SNOTEL	9000	4/01/10	70	19.3	29.2	28.1
CARTER CREEK	7400	3/31/10	22	5.2	7.8	6.3
CEDAR GROVE	3760	3/30/10	13	4.9	13.4	11.4
CHESSMAN RESERVOIR	6200	3/31/10	16	3.5	3.8	3.5
CHICKEN CREEK	4060	3/22/10	30	9.7	13.9	15.2
CLOVER MDW SNOTEL	8800	4/01/10	54	13.9	17.6	18.0
COLE CREEK SNOTEL	7850	4/01/10	52	13.6	15.9	16.4
COLLEY CREEK	6300	3/26/10	22	5.0	9.3	7.9
COMBINATION SNOTEL	5600	4/01/10	13	3.9	5.3	4.9
COPPER BOTTOM SNOTEL	5200	4/01/10	0	.0	8.4	11.0
COPPER CAMP SNOTEL	6950	4/01/10	73	26.6	41.9	--
COPPER CREEK	5700	3/26/10	7	2.9	10.9	13.3
COPPER MOUNTAIN	7700	3/26/10	33	8.7	9.8	11.2
COTTONWOOD CREEK	6400	3/23/10	21	4.8	7.7	8.3
COYOTE HILL	4200	3/25/10	15	5.4	9.6	8.7
CREVICE MOUNTAIN	8400	4/01/10	---	5.9E	9.2	10.8
CRYSTAL LAKE SNOTEL	6050	4/01/10	44	16.0	11.6	12.3
DAD CREEK LAKE	8400	3/28/10	46	12.6	17.6	14.9
DAISY PEAK SNOTEL	7600	4/01/10	40	9.9	11.1	11.0
DALY CREEK SNOTEL	5780	4/01/10	25	7.4	12.6	11.1

SNOW COURSE	ELEVATION	DATE	SNOW DEPTH	WATER CONTENT	LAST YEAR	AVERAGE 71-00
DARKHORSE LK. SNOTEL	8700	4/01/10	74	21.9	34.0	32.5
DAVIS CREEK	5400	3/29/10	55	15.8	20.8	24.2
DEADMAN CR SNOTEL	6450	4/01/10	31	9.8	12.2	10.0
DESERT MOUNTAIN	5600	3/27/10	30	8.9	15.7	14.7
DISCOVERY BASIN	7050	3/30/10	34	7.9	14.3	10.4
DIVIDE SNOTEL	7800	4/01/10	35	8.3	11.4	11.3
DIX HILL	6400	3/28/10	17	5.8	11.5	10.3
DUPUYER CREEK SNOTEL	5750	4/01/10	16	4.9	8.4	9.9
EAGLE CREEK	7000	3/28/10	34	10.6	18.0	13.8
EAST FORK R.S.	5400	3/22/10	5	1.3	6.0	4.7
EL DORADO MINE	7800	3/28/10	31	7.4	12.1	20.2
ELK HORN SPRINGS	7800	3/28/10	19	5.1	9.1	9.1
ELK PEAK	8000	4/02/10	41	11.4	12.5	16.1
EMERY CREEK SNOTEL	4350	4/01/10	26	9.1	14.7	15.3
FATTY CREEK	5500	3/25/10	53	17.1	19.5	24.3
FISH CREEK	8000	3/30/10	37	9.4	9.5	9.9
FISHER CREEK SNOTEL	9100	4/01/10	75	22.4	36.8	35.4
FIVE-BULL	5700	3/25/10	7	1.8	5.6	5.5
FLATTOP MTN SNOTEL	6300	4/01/10	113	34.3	35.1	45.1
FLEECER RIDGE	7500	3/30/10	23	5.1	10.2	10.9
FOOLHEN	8280	3/28/10	33	9.2	14.8	16.2
FOREST LAKE	6400	3/28/10	27	7.7	14.8	11.7
FOUR MILE	6900	3/29/10	22	5.3	6.4	8.4
FREIGHT CREEK	6000	3/31/10	23	5.4	11.6	14.8
FROHNER MDWS SNOTEL	6480	4/01/10	26	6.5	9.5	8.0
GARVER CREEK SNOTEL	4250	4/01/10	23	8.0	10.7	9.9
GIBBONS PASS	7100	3/30/10	41	11.9	20.4	22.7
GOAT MOUNTAIN	7000	3/28/10	12	3.5	10.6	9.7
GOLD CREEK LAKE	7200	3/28/10	55	16.2	21.1	14.7
GOLD STONE	8100	3/28/10	34	9.0	17.0	16.9
GRASSHOPPER	7000	4/02/10	19	5.5	6.3	5.8
GRAVE CRK SNOTEL	4300	4/01/10	29	10.7	14.4	15.6
GRIFFIN CR DIVIDE	5150	3/29/10	16	5.5	10.2	10.3
GUNSIGHT LAKE	6300	3/27/10	76	26.5	34.3	39.3
HAND CREEK SNOTEL	5030	4/01/10	21	7.0	14.7	11.7
HAWKINS LAKE SNOTEL	6450	4/01/10	68	19.9	23.8	27.4
HAYMAKER	8050	4/01/10	---	11.0E	17.0	11.8
HEBGEN DAM	6550	3/28/10	20	5.4	8.6	12.0
HELL ROARING DIVIDE	5770	3/30/10	58	21.0	25.6	29.5
HERRIG JUNCTION	4850	3/22/10	50	16.9	20.6	26.0
HOLBROOK	4530	4/01/10	5	1.5	10.4	8.2
HOODOO BASIN SNOTEL	6050	4/01/10	78	23.3	37.5	45.3
INDEPENDENCE	7850	3/25/10	31	9.1	18.2	17.4
INTERGAARD	6450	3/27/10	17	3.9	6.8	7.7
JAHNKE LAKE TRAIL	7200	3/28/10	17	4.0	10.0	10.4
JOHNSON PARK	6450	4/01/10	13	4.2	8.8	5.5
KINGS HILL	7500	4/01/10	45	12.2	10.0	13.7
KISHENEHN	3890	3/28/10	6	2.2	8.8	6.8
KRAFT CREEK SNOTEL	4750	4/01/10	17	6.5	13.7	14.1
LAKE CREEK	6100	3/29/10	14	4.3	5.7	8.2
LAKEVIEW CANYON	6930	4/01/10	---	6.9E	11.5	11.1
LAKEVIEW RDG. SNOTEL	7400	4/01/10	27	6.8	11.4	11.8
LEMHI RIDGE SNOTEL	8100	4/01/10	37	9.4	14.5	11.2
LICK CREEK SNOTEL	6860	4/01/10	35	8.5	11.1	13.0
LITTLE PARK	7400	3/31/10	50	12.3	16.2	15.9
LOGAN CREEK	4300	3/25/10	13	4.3	9.1	6.7
LONE MOUNTAIN SNOTEL	8880	4/01/10	51	13.4	21.2	18.7
LOST SOUL	4800	3/29/10	17	5.6	15.0	14.0
LOWER TWIN SNOTEL	7900	4/01/10	57	14.7	19.1	19.0
LUBRECHT SNOTEL	4680	4/01/10	0	.0	6.4	3.6
LUBRECHT FOREST NO 3	5450	3/26/10	9	2.4	7.7	5.7
LUBRECHT FOREST NO 4	4650	3/26/10	0	.0	2.7	1.3
LUBRECHT FOREST NO 6	4040	3/26/10	0	.0	2.8	1.6
LUBRECHT HYDROPLOT	4200	3/26/10	0	.0	4.8	2.9

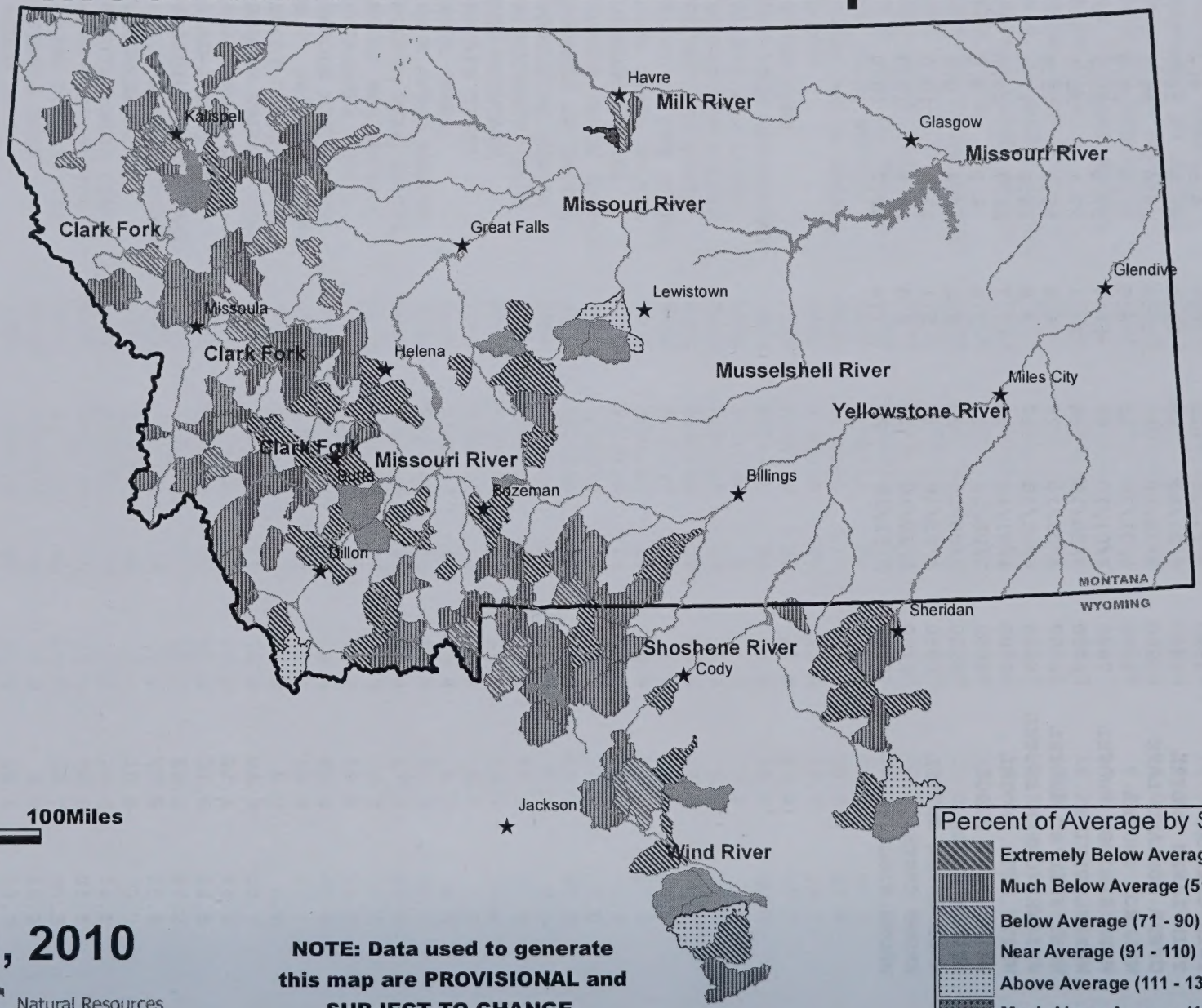
SNOW COURSE	ELEVATION	DATE	SNOW DEPTH	WATER CONTENT	LAST YEAR	AVERAGE 71-00
MADISON PLT SNOTEL	7750	4/01/10	53	14.3	22.4	25.5
MANY GLACIER SNOTEL	4900	4/01/10	22	7.1	14.0	15.3
MARIAS PASS	5250	3/30/10	22	7.0	16.4	16.8
MIDDLE MILL CREEK	7850	3/30/10	48	14.4	16.8	15.6
MILL CREEK	7500	3/26/10	44	11.3	16.7	12.6
MINERAL CREEK	4000	3/28/10	15	5.6	17.3	17.4
MONUMENT PK SNOTEL	8850	4/01/10	61	15.6	24.9	21.0
MOSS PEAK SNOTEL	6780	4/01/10	98	35.5	35.0	38.2
MOULTON RESERVOIR	6850	3/30/10	17	3.8	8.0	6.9
MT LOCKHART SNOTEL	6400	4/01/10	40	12.7	19.3	21.1
MUDD LAKE	7650	3/28/10	37	10.8	18.2	19.5
MULE CREEK SNOTEL	8300	4/01/10	44	11.1	17.8	15.8
N.E. ENTRANCE SNOTEL	7350	4/01/10	18	5.3	11.2	11.3
NEVADA RIDGE SNOTEL	7020	4/01/10	37	9.5	16.9	15.5
NEW WORLD	6900	3/29/10	38	11.9	13.4	14.6
NEZ PERCE CMP SNOTEL	5650	4/01/10	31	8.3	16.2	14.7
NEZ PERCE CREEK	6600	3/26/10	12	3.7	5.2	6.5
NEZ PERCE PASS	6570	3/23/10	29	8.3	20.3	17.8
N.F. ELK CR SNOTEL	6250	4/01/10	28	7.7	14.1	12.4
NF JOCKO SNOTEL	6330	4/01/10	82	31.2	42.7	45.3
NOISY BASIN SNOTEL	6040	4/01/10	112	34.9	39.5	40.9
NOTCH	8500	3/28/10	48	13.8	13.5	16.7
OPHIR PARK	7150	3/28/10	32	10.8	17.4	16.7
PETERSON MDW SNOTEL	7200	4/01/10	41	9.3	14.2	10.5
PICKET PIN LOWER	6200	3/30/10	0	.0	5.6	2.6
PICKET PIN MIDDLE	7250	3/30/10	23	6.9	8.5	10.9
PICKET PIN UPPER	8100	3/30/10	52	15.5	19.0	19.3
PICKFOOT CRK SNOTEL	6650	4/01/10	29	8.0	12.6	11.7
PIKE CREEK SNOTEL	5930	4/01/10	26	8.9	19.7	27.5
PIPESTONE PASS	7200	3/26/10	16	4.3	4.2	5.7
PLACER BASIN SNOTEL	8830	4/01/10	54	13.6	21.2	17.8
POORMAN CR SNOTEL	5100	4/01/10	64	22.8	36.2	32.7
PORCUPINE SNOTEL	6500	4/01/10	19	5.2	7.8	6.9
POTOMAGETON PARK	7150	4/04/10	36	9.7	15.0	13.8
RED MOUNTAIN	6000	3/29/10	39	12.1	19.3	18.8
REVAIS CREEK	4800	3/30/10	1	.1	2.7	1.8
ROCK CREEK	5600	3/30/10	31	10.4	8.2	9.8
ROCK CREEK MEADOW	8160	3/29/10	49	10.7	21.7	20.7
ROCKER PEAK SNOTEL	8000	4/01/10	46	11.4	17.3	14.3
ROCKY BOY SNOTEL	4700	4/01/10	4	.9	5.2	4.4
SACAJAWEA SNOTEL	6550	4/01/10	49	15.2	13.8	14.8
SADDLE MTN SNOTEL	7900	4/01/10	53	13.4	25.6	25.8
S.F. SHIELDS SNOTEL	8100	4/01/10	60	15.4	18.9	17.7
SHORT CREEK SNOTEL	7000	4/01/10	17	4.3	5.5	6.1
SHOWER FALLS SNOTEL	8100	4/01/10	72	18.8	24.3	22.7
SKALKAHO SNOTEL	7260	4/01/10	50	12.8	22.4	24.3
SLAG-A-MELT LAKE	8750	3/28/10	50	15.8	24.6	24.5
SLEEPING WOMAN SNTL	6150	4/01/10	35	10.0	19.3	17.2
SLIDE ROCK MOUNTAIN	7100	3/27/10	30	7.2	15.5	15.5
SMUGGLER MINE	6960	3/30/10	36	9.5	10.8	9.7
SPOTTED BEAR MTN.	7000	3/25/10	25	8.1	14.4	14.1
SPUR PARK SNOTEL	8100	4/01/10	63	16.9	24.5	21.5
STAHL PEAK SNOTEL	6030	4/01/10	92	29.8	30.7	35.3
STEMPLE PASS	6600	3/30/10	25	5.4	9.9	10.2
STORM LAKE	7780	3/30/10	45	11.1	16.1	13.3
STRYKER BASIN	6180	3/22/10	71	24.1	28.3	31.9
STUART MOUNTAIN SNTL	7400	4/01/10	74	23.2	34.2	34.2
TAYLOR ROAD	4080	3/25/10	11	3.9	4.0	1.7
TEN MILE LOWER	6600	3/31/10	25	5.4	6.8	7.0
TEN MILE MIDDLE	6800	3/31/10	39	9.2	10.0	11.4
TEPEE CREEK SNOTEL	8000	4/01/10	32	8.7	14.7	13.5
TIMBERLINE CREEK	8850	3/31/10	45	10.1	15.2	14.2
TIZER BASIN SNOTEL	6840	4/01/10	34	8.3	11.3	10.3
TRAIL CREEK	7090	3/28/10	23	5.8	11.0	8.5

SNOW COURSE	ELEVATION	DATE	SNOW DEPTH	WATER CONTENT	LAST YEAR	AVERAGE 71-00
TRINKUS LAKE	6100	3/25/10	88	33.4	38.4	42.0
TRUMAN CREEK	4060	3/30/10	2	.6	7.1	3.7
TV MOUNTAIN	6800	3/25/10	38	10.5	15.5	18.3
TWELVEMILE SNOTEL	5600	4/01/10	28	10.3	22.1	17.5
TWENTY-ONE MILE	7150	3/31/10	32	7.6	16.5	16.9
TWIN CREEKS	3580	3/27/10	22	6.7	9.5	9.6
TWIN LAKES SNOTEL	6400	4/01/10	69	23.2	42.5	39.7
UPPER HOLLAND LAKE	6200	3/25/10	61	19.9	29.9	34.6
WALDRON SNOTEL	5600	4/01/10	21	6.5	11.5	10.8
WARM SPRINGS SNOTEL	7800	4/01/10	67	17.4	27.6	21.2
WEASEL DIVIDE	5450	3/30/10	64	21.1	27.1	32.9
WEST YELL'ST SNOTEL	6700	4/01/10	26	6.5	11.8	12.8
WHISKEY CREEK SNOTEL	6800	4/01/10	37	9.0	16.5	17.4
WHITE MILL SNOTEL	8700	4/01/10	59	15.7	24.7	24.6
WHITE PINE RIDGE	8850	3/28/10	29	7.5	6.8	6.0
WILLOW CREEK	6500	3/29/10	20	5.2	6.4	8.1
WOOD CREEK SNOTEL	5960	4/01/10	17	5.1	11.3	10.0
WRONG CREEK	5700	3/30/10	15	4.4	10.2	12.3
WRONG RIDGE	6800	3/31/10	29	7.4	12.2	18.0

UNITED STATES DEPARTMENT OF AGRICULTURE

NATURAL RESOURCES CONSERVATION SERVICE

Mountain Snow Water Equivalent



April 1, 2010

NRCS Natural Resources Conservation Service

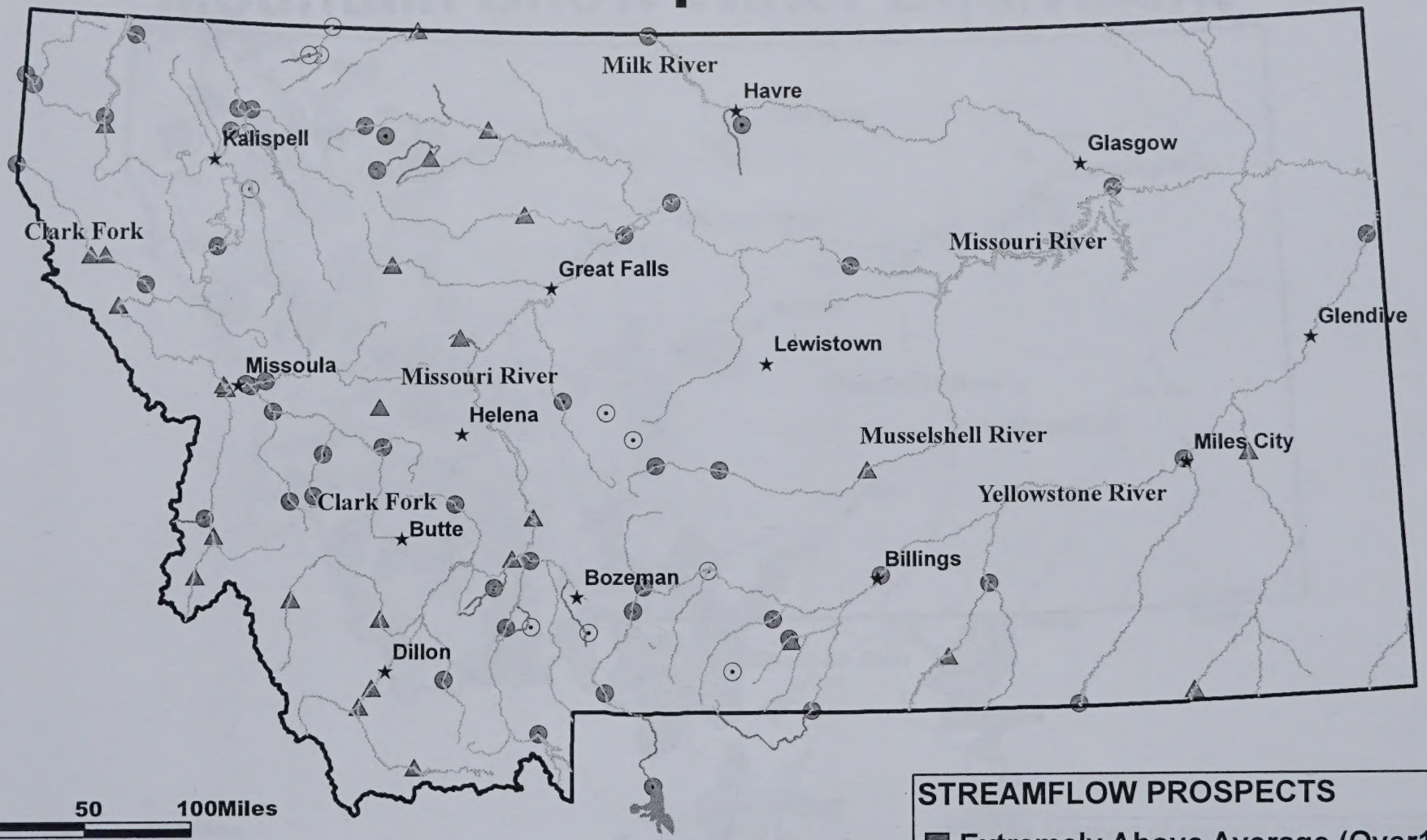
http://www.mt.nrcs.usda.gov

NOTE: Data used to generate this map are PROVISIONAL and SUBJECT TO CHANGE.

UNITED STATES DEPARTMENT OF AGRICULTURE

NATURAL RESOURCES CONSERVATION SERVICE

Streamflow Prospects for Montana



Current as of April 1, 2010

NRCS Natural Resources Conservation Service

http://www.mt.nrcs.usda.gov

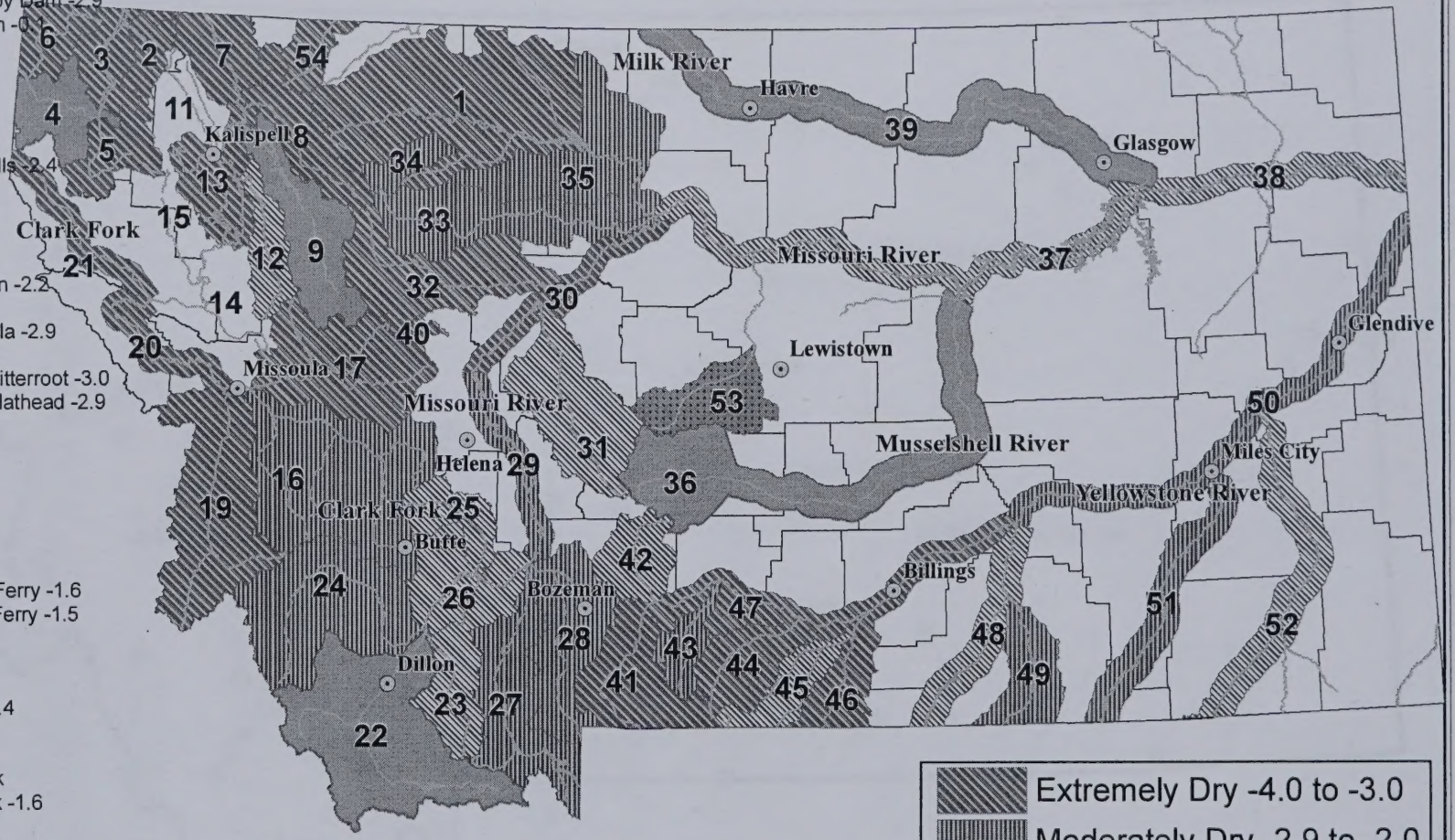
NOTE: Data used to generate this map are PROVISIONAL and SUBJECT TO CHANGE.

STREAMFLOW PROSPECTS

- Extremely Above Average (Over150)
- Much Above Average (131 - 150)
- Above Average (111 - 130)
- Near Average (91 - 110)
- Below Average (71 - 90)
- Much Below Average (51 - 70)
- Extremely Below Average (Below 51)

Surface Water Supply Index (SWSI) Values

UNITED STATES DEPARTMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVICE



RIVER INDEX & SWSI VALUES

1 Marias above Tiber Reservoir
2 Tobacco -3.2
3 Kootenai Ft. Steele to Libby Dam -2.9
4 Kootenai below Libby Dam -0.1
5 Fisher -2.8
6 Yaak -3.4
7 North FK. Flathead -3.2
8 Middle FK. Flathead -3.2
9 South FK. Flathead -0.4
10 Flathead at Columbia Falls -2.4
12 Swan -1.2
13 Flathead at Polson -2.9
14 Mission Valley -3.5
15 Little Bitterroot -3.6
16 Clark Fork above Milltown -2.2
17 Blackfoot -2.9
18 Clark Fork above Missoula -2.9
19 Bitterroot -3.4
20 Clark Fork River below Bitterroot -3.0
21 Clark Fork River below Flathead -2.9
22 Beaverhead -0.8
23 Ruby -1.7
24 Big Hole -1.3
25 Boulder (Jefferson) -1.7
26 Jefferson -0.1
27 Madison -1.8
28 Gallatin -1.4
29 Missouri above Canyon Ferry -1.6
30 Missouri below Canyon Ferry -1.5
31 Smith -0.2
32 Sun -3.6
33 Teton -1.4
34 Birch/Dupuyer Creeks -2.4
35 Marias
36 Musselshell 1.2
37 Missouri above Fort Peck
38 Missouri below Fort Peck -1.6
39 Milk -0.5
40 Dearborn near Craig -3.0
41 Yellowstone above Livingston -3.2
42 Shields -0.9
43 Boulder (Yellowstone) -2.9
44 Stillwater -3.1
45 Rock/Red Lodge Creeks -1
46 Clarks Fork Yellowstone -3.0
47 Yellowstone above Bighorn River -3.1
48 Bighorn below Bighorn Lake -1.7
49 Little Bighorn -2.7
50 Yellowstone below Bighorn -2.5
51 Tongue -2.1
52 Powder -1.9
53 Upper Judith 3.4
54 Saint Mary -2.9

0 45 90 Miles

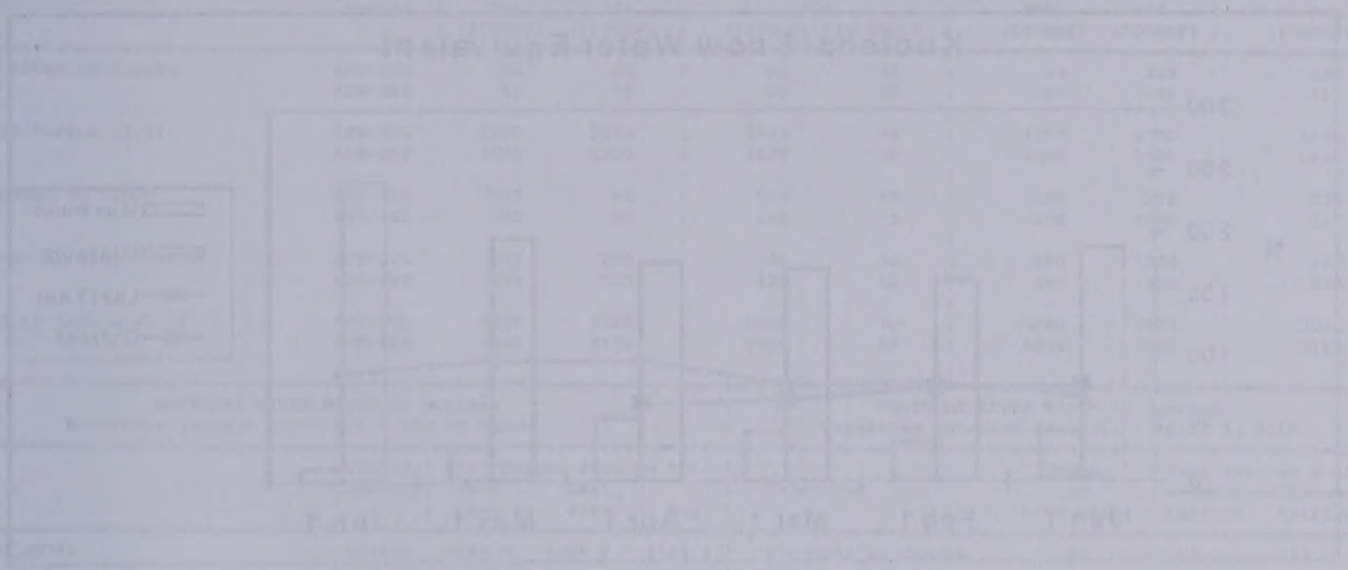
Current as of April 1, 2010

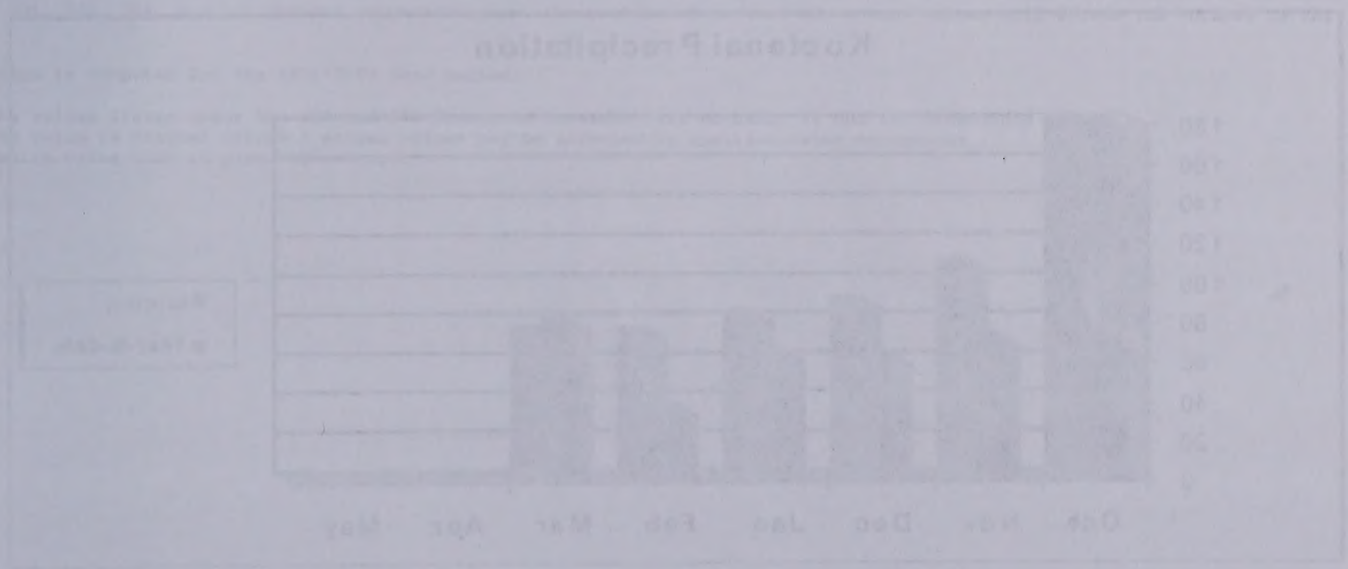
- Extremely Dry -4.0 to -3.0
- Moderately Dry -2.9 to -2.0
- Slightly Dry -1.9 to -1.0
- Near Average -0.9 to 0.9
- Sightly Wet 1.0 to 1.9
- Moderately Wet 2.0 to 2.9
- Extremely Wet 3.0 to 4.0
- SWSI Not Applicable

NOTE: Data used to generate this map are PROVISIONAL and SUBJECT TO CHANGE.

NRCS Natural Resources Conservation Service

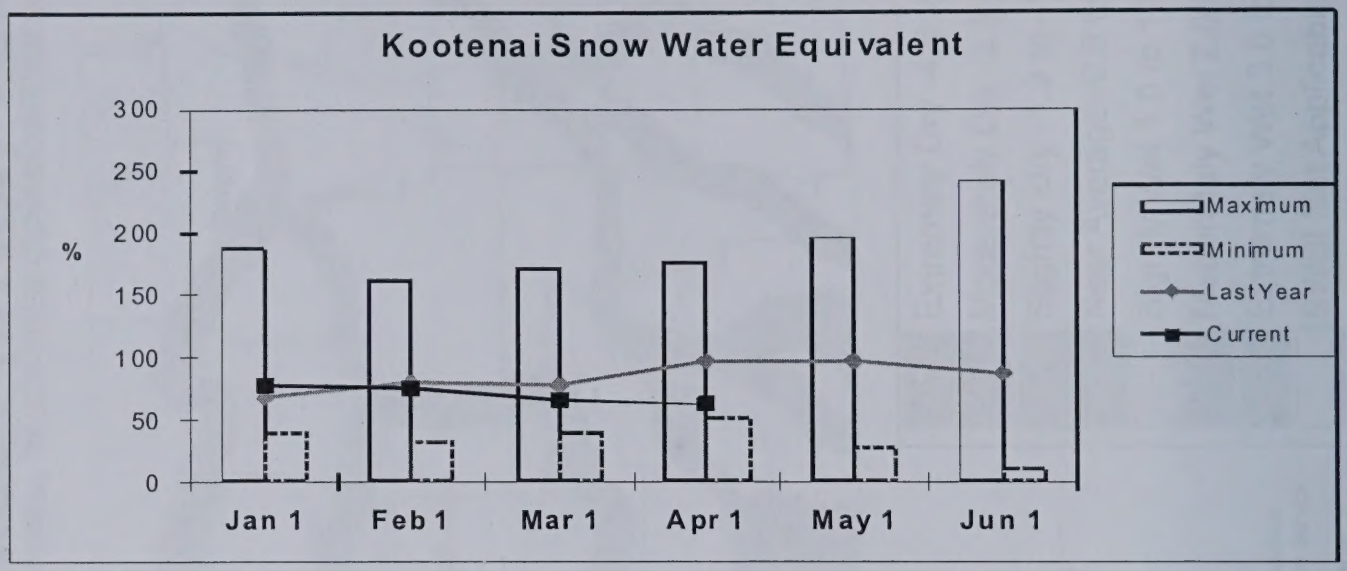
http://www.mt.nrcs.usda.gov





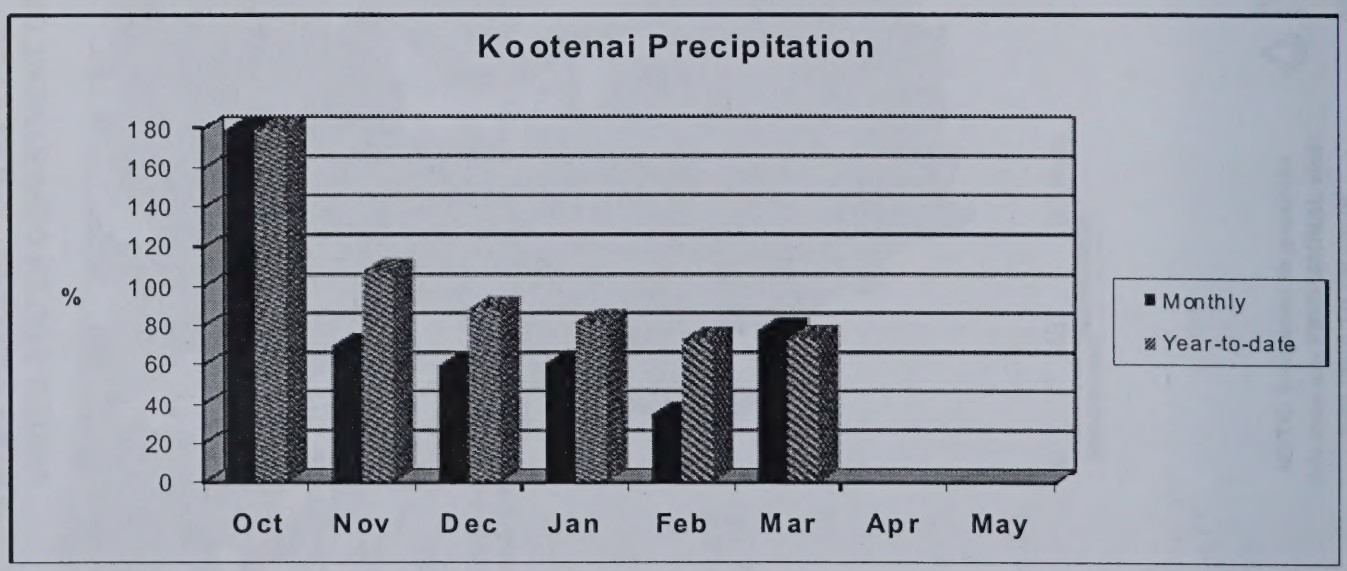
Kootenai River Basin in Montana

March accumulated snow water was 79 percent of average. Snowpack conditions in the Kootenai River Basin were well below average and decreased 4 percent from March 1. Snow water content was 62 percent of average and 64 percent of last year. Snow water content was fifth lowest of record. Snowpack in the Kootenay in Canada was well below average. Snow water content was 68 percent of average and 85 percent of last year.



January maximum swe was established in 1997 and minimum was in 1977; February maximum swe was in 1997 and minimum swe was in 1977; March maximum swe was in 1972 and minimum swe was in 1977; April maximum swe was in 1974 and minimum swe was in 2001and 2005; May maximum swe was in 1974 and minimum swe was in 1977; and June maximum swe was in 1974 and minimum swe was in 1992. Average is for the period 1971 through 2000.

Mountain precipitation during March was 78 percent of average and 56 percent of last year. Valley precipitation during March was 82 percent of average and 45 percent of last year. Mountain and valley water year precipitation, beginning October 1, 2009, was 74 percent of average and 83 percent of last year.



Lake Koocanusa storage was 200 percent of average and 100 percent of last year.

Assuming near average precipitation, April through July, streamflows are forecast at 52 to 59 percent of average.

Surface Water Supply Index (SWSI) was -3.2 in the Tobacco River; -3.4 in the Kootenai Ft. Steele to Libby Dam; -0.9 in the Kootenai River below Libby Dam; -3.1 in the Fisher River; and -3.4 in the Yaak River.

KOOTENAI RIVER BASIN in Montana
Streamflow Forecasts - April 1, 2010

Forecast Point	Forecast Period	<<====== Drier ====== Future Conditions ======= Wetter =====>> Chance Of Exceeding * 90% (1000AF)	70% (1000AF)	50% (1000AF)	50% (% AVG.)	30% (1000AF)	10% (1000AF)	30-Yr Avg. (1000AF)
OBACCO RIVER nr Eureka	APR-JUL	50	69	81	60	93	112	136
	APR-SEP	54	76	90	60	104	126	150
IBBY RES Inflow (1,2)	APR-JUL	2980	3570	3840	68	4110	4700	5640
	APR-SEP	3530	4220	4540	68	4860	5550	6640
ISHER RIVER nr Libby	APR-JUL	57	85	104	45	123	151	230
	APR-SEP	60	90	110	45	130	160	245
AAK RIVER nr Troy	APR-JUL	143	200	240	52	280	335	465
	APR-SEP	154	215	255	52	295	355	490
OOTENAI at Leonia (1,2)	APR-JUL	3660	4500	4890	70	5280	6120	7040
	APR-SEP	4240	5170	5600	69	6030	6960	8120

KOOTENAI RIVER BASIN in Montana
Reservoir Storage (1000 AF) - End of March

eservoir	Usable Capacity	*** Usable Storage *** This Year	Last Year	Avg
AKE KOOCANUSA	5748.0	3486.0	3484.0	1743.7

KOOTENAI RIVER BASIN in Montana
Watershed Snowpack Analysis - April 1, 2010

Watershed	Number of Data Sites	This Year as % of Last Yr	Average
KOOTENAY in CANADA	20	85	68
KOOTENAI MAINTSTEM	7	60	60
TOBACCO	3	85	74
FISHER	5	48	51
YAAK	4	75	69
KOOTENAI in MONTANA	18	64	62
KOOTENAI ab BONNERS FERRY	38	73	65

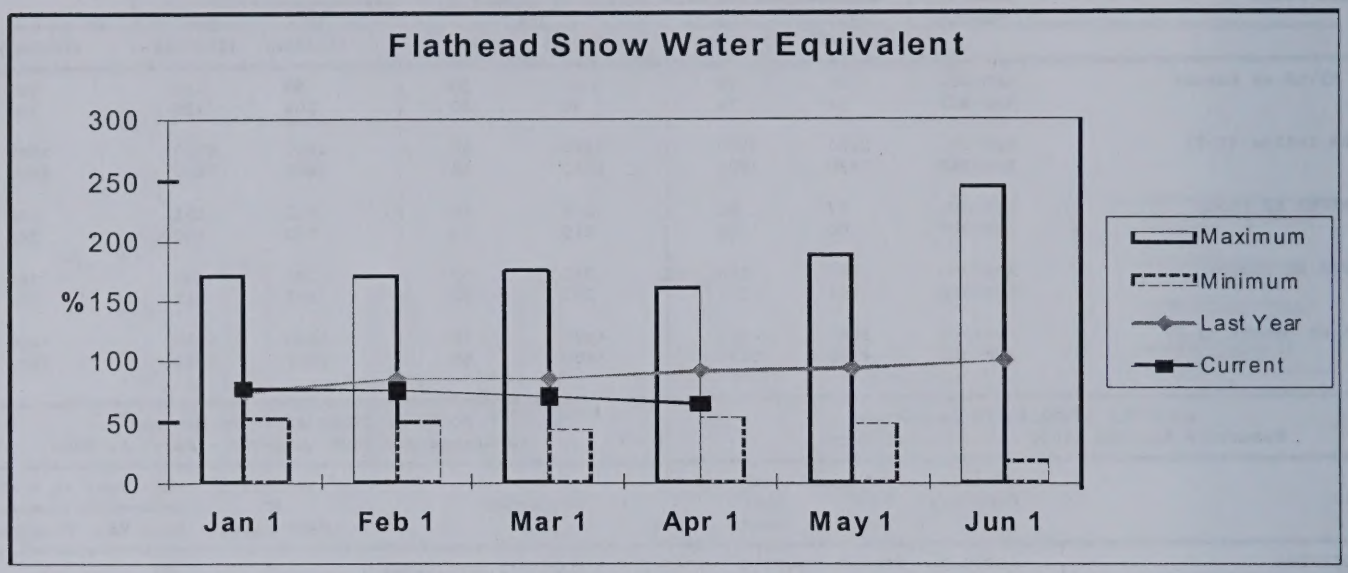
90%, 70%, 50%, 30%, and 10% chances of exceeding are the probabilities that the actual volume will exceed the volumes in the ble.

e average is computed for the 1971-2000 base period.

) - The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.
) - The value is natural volume - actual volume may be affected by upstream water management.
) - Median value used in place of average.

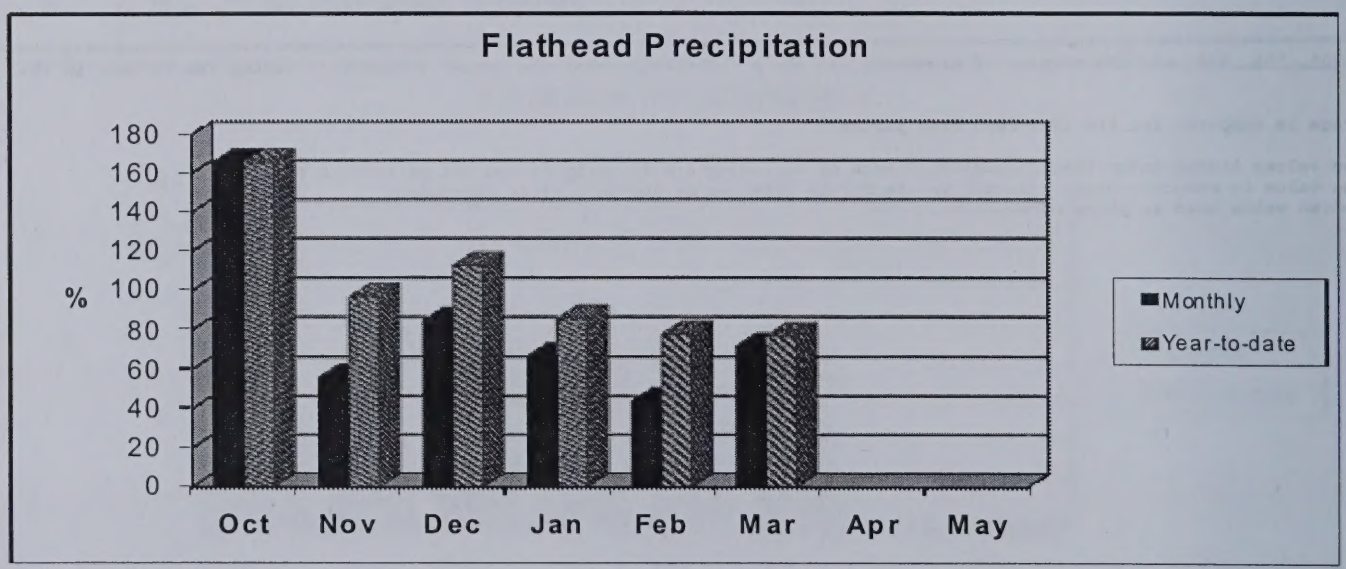
Flathead River Basin

March accumulated snow water was 64 percent of average. Snowpack conditions in the Flathead River Basin were well below average and decreased 6 percent from March 1. Snow water content was 65 percent of average and 69 percent of last year. Snow water content was second lowest of record. Snowpack in the Flathead of Canada were below average. Snow water content was 72 percent of average and 84 percent of last year.



January maximum swe was established in 1997 and minimum was in 2001; February maximum swe was in 1972 and minimum was in 2001; March maximum swe was in 1972 and minimum was in 2005; April maximum swe was in 1972 and minimum was in 2005; May maximum swe was in 1972 and minimum was in 1992; and June maximum swe was in 1974 and minimum was in 1992. Average is for the period 1971 through 2000.

Mountain precipitation during March was 72 percent of average and 59 percent of last year. Valley precipitation during March was 66 percent of average and 62 percent of last year. Mountain and valley water year precipitation, beginning October 1, 2009, was 77 percent of average and 83 percent of last year.



Combined Camas reservoir storage was 53 percent of average and 148 percent of last year; Lower Jocko Lake was 0 percent of Combined Camas reservoir storage was not available; Lower Jocko Lake was not available; combined Mission Valley reservoir storage was not available; Hungry Horse storage was 134 percent of average and 108 percent of last year; and Flathead Lake storage was 106 percent of average and 128 percent of last year.

Assuming near average precipitation, April through July, streamflows are forecast at 60 to 69 percent of average.

Surface Water Supply Index (SWSI) was -3.4 in the North Fork Flathead River; -3.6 in the Middle Fork Flathead River; -0.7 in the South Fork Flathead River; -2.6 in the Flathead River at Columbia Falls; -1.4 in the Swan River; -3.4 in the Flathead River at Polson; not available in the Mission Valley; and not available in the Little Bitterroot River.

FLATHEAD RIVER BASIN
Streamflow Forecasts - April 1, 2010

Forecast Point	Forecast Period	<<====== Drier ====== Future Conditions ======= Wetter =====>> Chance Of Exceeding * 90% (1000AF)	70% (1000AF)	50% (1000AF)	50% (% AVG.)	30% (1000AF)	10% (1000AF)	30-Yr Avg. (1000AF)
' FLATHEAD nr Columbia Falls	APR-JUL	805	970	1080	67	1190	1350	1620
	APR-SEP	895	1080	1200	67	1320	1500	1800
' FLATHEAD nr West Glacier	APR-JUL	795	935	1030	65	1130	1270	1590
	APR-SEP	870	1020	1130	65	1240	1390	1740
' FLATHEAD R Nr Hungry Horse	APR-JUL	580	765	890	71	1020	1200	1250
	APR-SEP	715	850	940	71	1030	1170	1330
NGRY HORSE Reservoir Inflow (1,2)	APR-JUL	1010	1290	1420	71	1550	1830	2000
	APR-SEP	1050	1360	1500	71	1640	1950	2120
ATHEAD at Columbia Falls (2)	APR-JUL	2780	3260	3590	67	3920	4400	5350
	APR-SEP	2980	3530	3900	67	4270	4820	5820
HLEY CREEK nr Marion (2)	APR-JUL	0.7	1.3	2.8	39	4.3	6.6	7.2
	APRIL	0.2	0.7	1.4	51	2.1	3.2	2.7
AN RIVER nr Bigfork	APR-JUL	385	440	475	84	510	565	565
	APR-SEP	435	500	540	84	580	645	645
ATHEAD LAKE Inflow (1,2)	APR-JUL	2820	3690	4080	66	4470	5340	6180
	APR-SEP	2990	3980	4430	66	4880	5870	6700
LL CREEK nr Niarada	APR-JUL	0.1	0.9	1.5	36	2.0	2.9	4.1
	APR-SEP	0.1	1.0	1.6	36	2.2	3.0	4.5
uth Crow Ck nr Ronan	APR-JUL	6.2	7.6	8.6	85	9.6	11.0	10.1
	APR-SEP	7.1	8.7	9.8	85	10.9	12.5	11.5
ssion Ck nr St. Ignatius	APR-JUL	16.8	19.3	21	83	23	25	25
	APR-SEP	19.4	23	25	83	27	31	30
' Jocko R nr Arlee	APR-JUL	14.1	20	24	80	28	34	30
	APR-SEP	16.8	23	27	79	31	37	34
' JOCKO RIVER bl Tabor Canal	APR-JUL	21	23	25	81	27	29	31
	APR-SEP	22	24	26	79	28	30	33

FLATHEAD RIVER BASIN
Reservoir Storage (1000 AF) - End of March

servoir	Usable Capacity	*** Usable Storage *** This Year	Last Year	Avg
MAS (4)		NO REPORT		
WER JOCKO LAKE		NO REPORT		
SSION VALLEY (8)		NO REPORT		
NGRY HORSE	3451.0	2534.0	2353.0	1886.7
ATHEAD LAKE	1791.0	786.2	616.1	738.5

FLATHEAD RIVER BASIN
Watershed Snowpack Analysis - April 1, 2010

Watershed	Number of Data Sites	This Year as % of Last Yr	Average
NF FLATHEAD in CANADA	4	84	72
NF FLATHEAD in MONTANA	9	77	66
MIDDLE FORK FLATHEAD	7	73	62
SOUTH FORK FLATHEAD	8	73	69
STILLWATER-WHITEFISH	10	62	63
SWAN	7	82	75
MISSION VALLEY	4	88	81
LITTLE BITTERROOT-ASHLEY	6	37	42
JOCKO	5	66	64
FLATHEAD in MONTANA	41	69	65
FLATHEAD RIVER BASIN	45	70	66

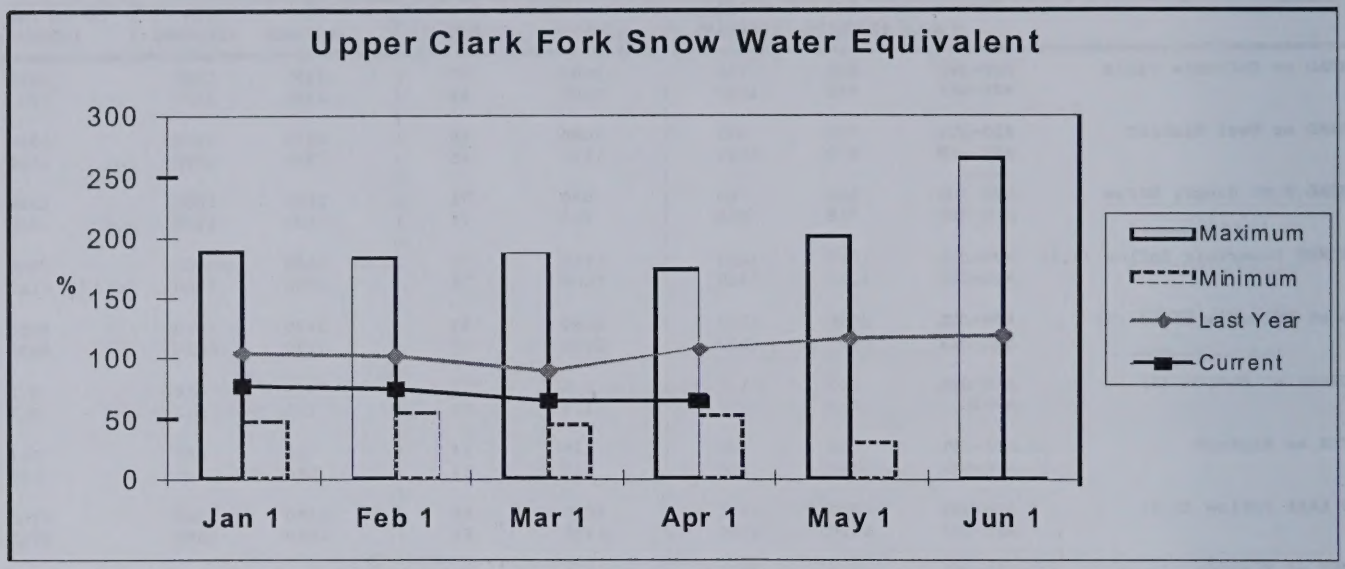
90%, 70%, 50%, 30%, and 10% chances of exceeding are the probabilities that the actual volume will exceed the volumes in the ble.

e average is computed for the 1971-2000 base period.

) - The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.
) - The value is natural volume - actual volume may be affected by upstream water management.
) - Median value used in place of average.

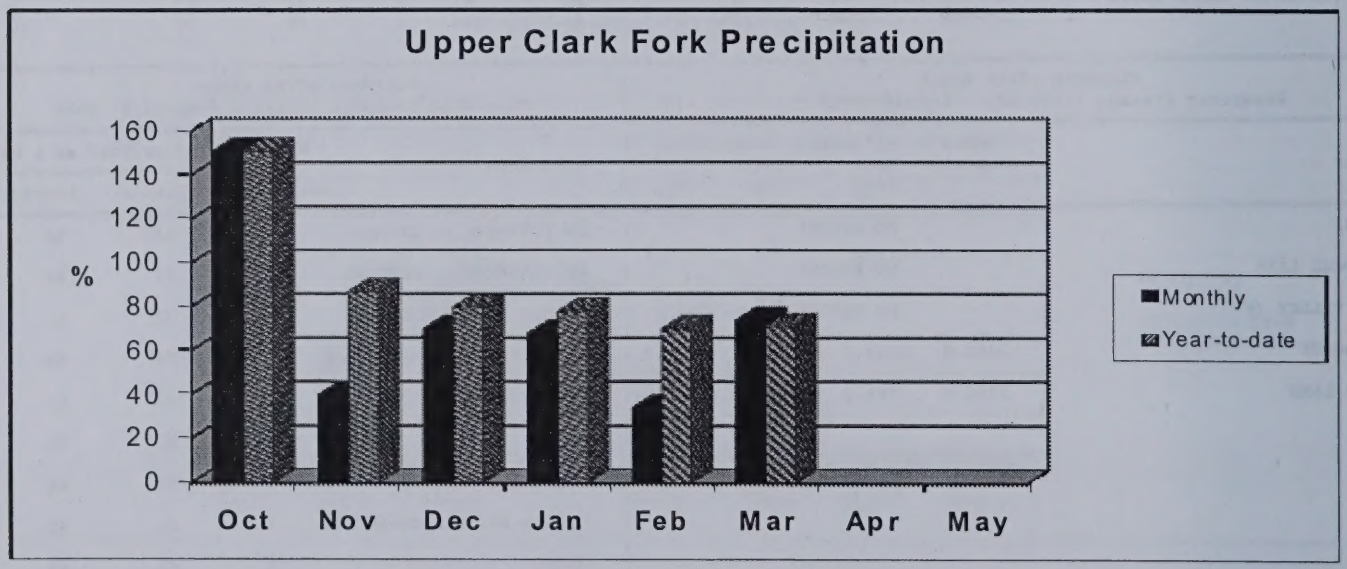
Upper Clark Fork River Basin

March accumulated snow water was 62 percent of average. Snowpack conditions in the Upper Clark Fork River Basin were well below average and decreased 1 percent from March 1. Snow water content was 64 percent of average and 60 percent of last year. Snow water content was second lowest of record. Blackfoot basin snow water content was tied for second lowest of record with 2007.



January maximum swe was established in 1997 and minimum swe was in 1977; February maximum was in 1972 and minimum swe was in 1977; March maximum swe was in 1972 and minimum swe was in 2005; April maximum swe was in 1972 and minimum was in 2005; May maximum swe was in 1972 and minimum swe was in 1977; and June maximum swe was in 1975 and minimum swe was in 1987. Average is for the period 1971 through 2000.

Mountain precipitation during March was 71 percent of average and 48 percent of last year. Valley precipitation during March was 105 percent of average and 86 percent of last year. Mountain and valley water year precipitation, beginning October 1, 2009, was 71 percent of average and 61 percent of last year.



East Fork Rock Creek storage was 129 percent of average and 107 percent of last year; Georgetown Lake was not available; Lower Willow Creek was not available; and Nevada Creek storage was 114 percent of average and 88 percent of last year.

Assuming near average precipitation, April through July, streamflows are forecast at 41 to 56 percent of average.

Surface Water Supply Index (SWSI) was -2.5 in the Clark Fork River above Milltown; and -3.0 in the Blackfoot River.

UPPER CLARK FORK RIVER BASIN
Streamflow Forecasts - April 1, 2010

Forecast Point	Forecast Period	<<====== Drier ====== Future Conditions ======= Wetter =====>> Chance Of Exceeding * 90% (1000AF)	70% (1000AF)	50% (1000AF)	50% (% AVG.)	30% (1000AF)	10% (1000AF)	30-Yr Avg. (1000AF)
TTLE BLACKFOOT nr Garrison	APR-JUL	16.2	36	50	66	64	84	76
	APR-SEP	19.0	40	55	66	70	91	84
INT CREEK nr Southern Cross	APR-JUL	2.6	6.3	8.9	65	11.5	15.2	13.7
	APR-SEP	1.6	6.9	10.5	65	14.1	19.4	16.2
INT CREEK blw Boulder Ck	APR-JUL	12.2	26	36	64	46	60	56
	APR-SEP	15.7	33	45	63	57	74	71
WER WILLOW CK RES Inflow	APR-MAY	0.5	2.7	4.2	51	5.7	7.9	8.2
	APR-JUL	0.0	3.6	6.0	48	8.4	12.0	12.5
ROCK CREEK nr Philipsburg	APR-JUL	21	31	37	58	43	53	64
	APR-SEP	24	35	42	58	49	60	72
ck Ck Nr Clinton	APR-JUL	81	128	159	59	190	235	270
	APR-SEP	94	145	180	59	215	265	305
ARK FORK abv Milltown	APR-JUL	93	230	320	53	410	545	605
	APR-SEP	122	275	375	53	475	630	705
VADA CREEK nr Helmville	APR-MAY	0.8	2.3	4.4	43	6.5	9.6	10.3
	APR-JUL	-1.2	3.9	7.4	43	10.9	16.0	17.3
ACKFOOT RIVER nr Bonner	APR-JUL	225	340	420	52	500	615	805
	APR-SEP	255	380	465	52	550	675	890
ARK FORK abv Missoula	APR-JUL	355	585	740	53	895	1130	1410
	APR-SEP	420	670	840	53	1010	1260	1600

UPPER CLARK FORK RIVER BASIN
Reservoir Storage (1000 AF) - End of March

servoir	Usable Capacity	*** Usable Storage *** This Year	Last Year	Avg
ST FORK ROCK CREEK	15.6	12.8	12.0	9.9
ORGETOWN LAKE		NO REPORT		
WER WILLOW CREEK		NO REPORT		
VADA CREEK	12.6	8.7	9.9	7.6

UPPER CLARK FORK RIVER BASIN
Watershed Snowpack Analysis - April 1, 2010

Watershed	Number of Data Sites	This Year as % of Last Yr	Average
CLARK FORK ab FLINT CREEK	15	67	73
FLINT CREEK	6	62	74
ROCK CREEK	5	58	64
CLARK FORK ab BLACKFOOT	23	63	69
BLACKFOOT	15	54	54
UPPER CLARK FORK BASIN	36	60	64

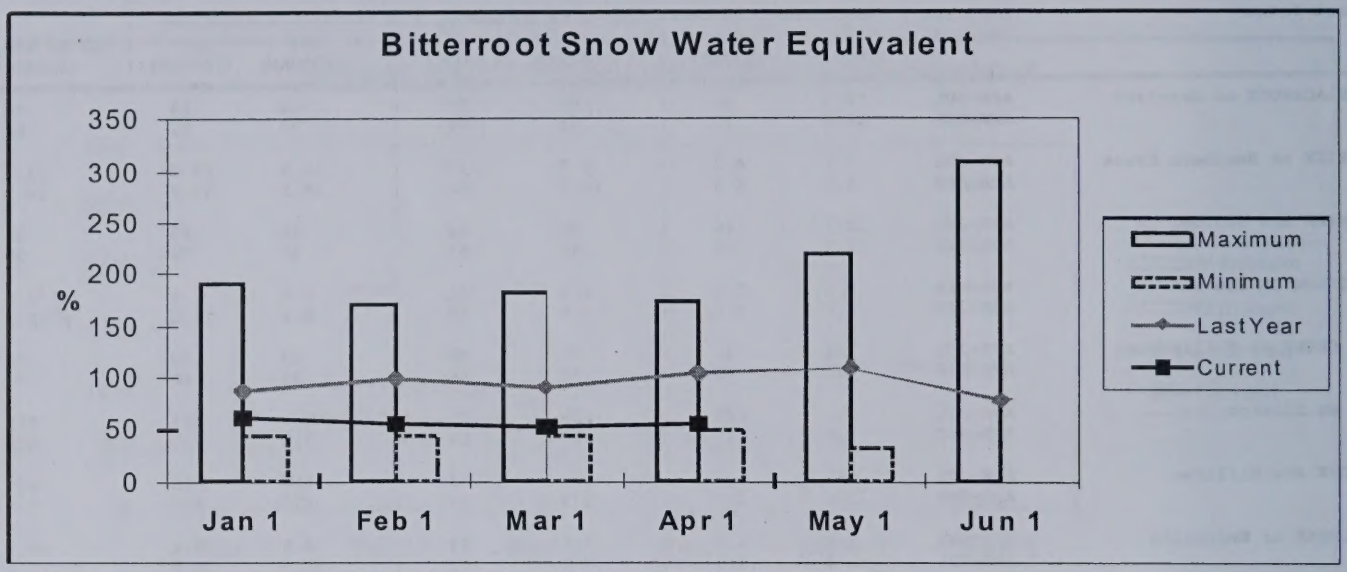
90%, 70%, 50%, 30%, and 10% chances of exceeding are the probabilities that the actual volume will exceed the volumes in the ble.

e average is computed for the 1971-2000 base period.

) - The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.
) - The value is natural volume - actual volume may be affected by upstream water management.
) - Median value used in place of average.

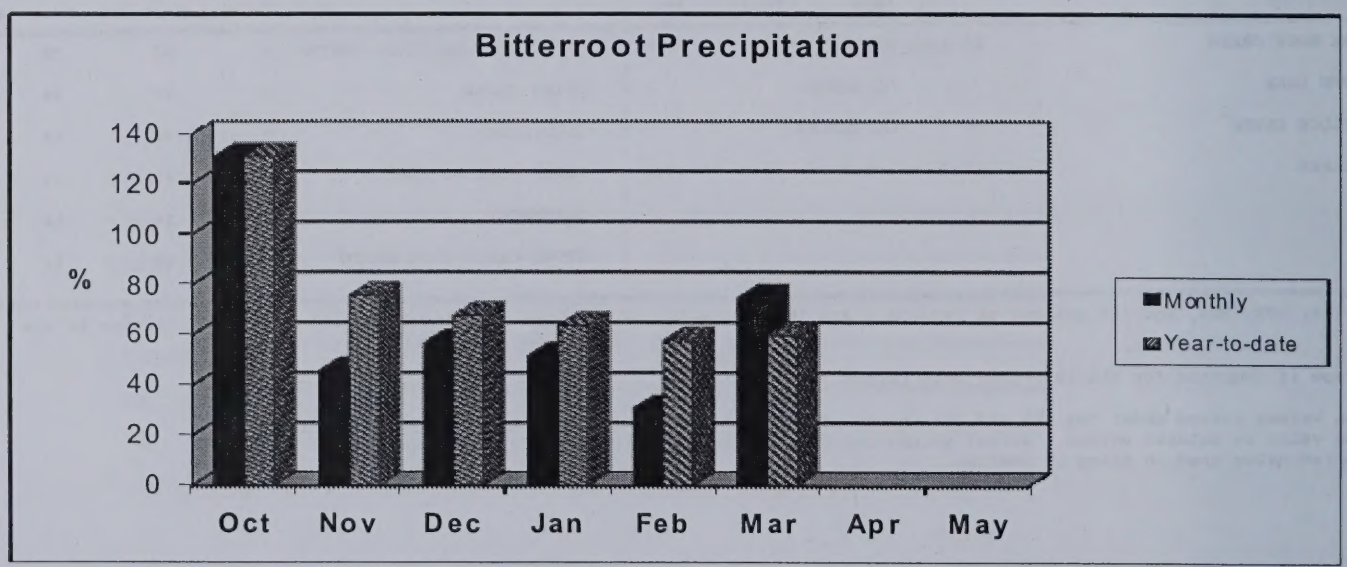
Bitterroot River Basin

March accumulated snow water was 85 percent of average. Snowpack conditions in the Bitterroot River Basin were well below average and increased 3 percent from March 1. Snow water content was 55 percent of average and 52 percent of last year. Snow water content was second lowest of record.



January maximum swe was established in 1997 and minimum swe in 1977; February maximum swe was in 1972 and minimum was in 1977; March maximum swe was in 1972 and minimum swe was in 1977 and 2005; April maximum swe was in 1972 and minimum swe was in 2005; May maximum swe was in 1972 and minimum swe was in 1987; and June maximum swe was 1972 and 1974 and minimum swe was in 1987,1992, 1994, and 2001. Average is for the period 1971 through 2000.

Mountain precipitation during March was 72 percent of average and 48 percent of last year. Valley precipitation during March was 106 percent of average and 78 percent of last year. Mountain and valley water year precipitation, beginning October 1, 2009, was 60 percent of average and 55 percent of last year.



Painted Rocks Lake storage was 67 percent of average and 64 percent of last year and Como storage was 83 percent of average and 78 percent of last year.

Assuming near average precipitation, April through July, streamflows are forecast at 38 to 48 percent of average.

Surface Water Supply Index (SWSI) was -3.6 in the Bitterroot River.

BITTERROOT RIVER BASIN
Streamflow Forecasts - April 1, 2010

orecast Point	Forecast Period	<<====== Drier ====== Future Conditions ======= Wetter =====>> Chance Of Exceeding * 90% (1000AF)	70% (1000AF)	50% (1000AF)	50% (% AVG.)	30% (1000AF)	10% (1000AF)	30-Yr Avg. (1000AF)
BITTERROOT nr Conner (2)	APR-JUL	19.0	44	61	43	78	103	143
	APR-SEP	24	50	68	43	86	112	157
TERROOT nr Darby	APR-JUL	94	166	215	47	265	335	460
	APR-SEP	119	191	240	47	290	360	515
) RESERVOIR Inflow	APR-JUL	29	37	43	55	49	57	78
	APR-SEP	30	39	45	55	51	60	82
TERROOT at Missoula	APR-JUL	330	490	600	48	710	870	1250
	APR-SEP	370	545	660	48	775	950	1370

BITTERROOT RIVER BASIN
Reservoir Storage (1000 AF) - End of March

ervoir	Usable Capacity	*** Usable Storage *** This Year	Last Year	Avg
NTED ROCKS LAKE	31.7	6.4	10.0	9.6
)	34.9	12.4	16.0	14.9

BITTERROOT RIVER BASIN
Watershed Snowpack Analysis - April 1, 2010

Watershed	Number of Data Sites	This Year as % of Last Yr	Average
WEST FORK BITTERROOT	3	48	51
EAST SIDE BITTERROOT	6	54	54
WEST SIDE BITTERROOT	3	52	56
BITTERROOT RIVER BASIN	11	52	55

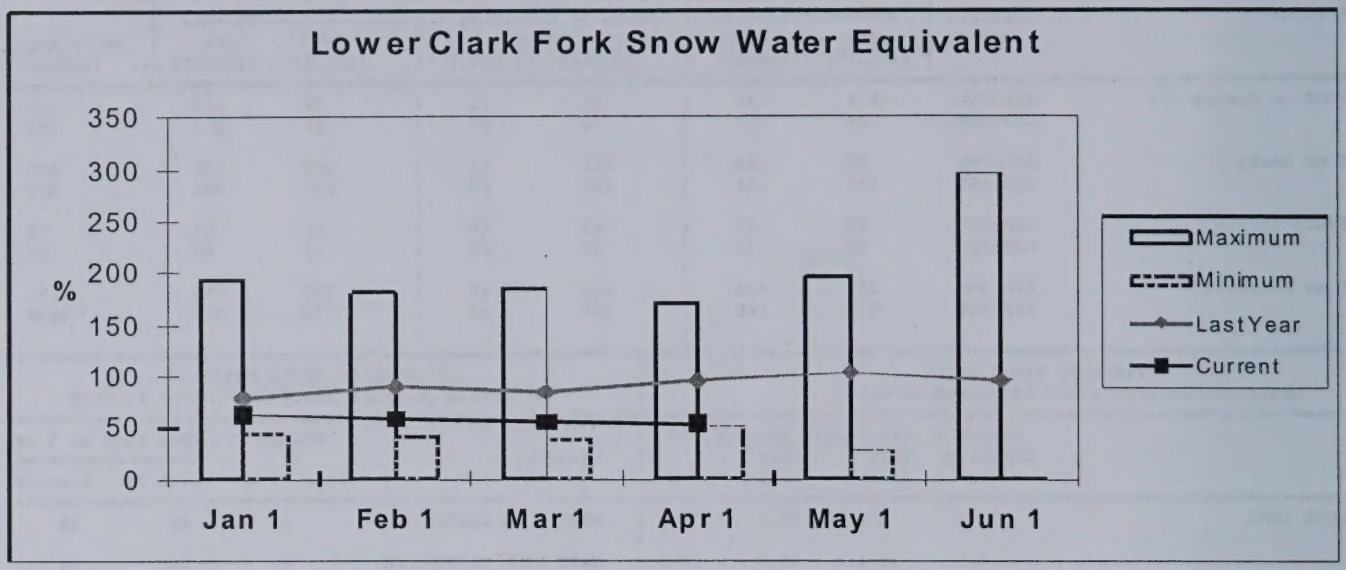
90%, 70%, 50%, 30%, and 10% chances of exceeding are the probabilities that the actual volume will exceed the volumes in the le.

average is computed for the 1971-2000 base period.

- The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.
- The value is natural volume - actual volume may be affected by upstream water management.
- Median value used in place of average.

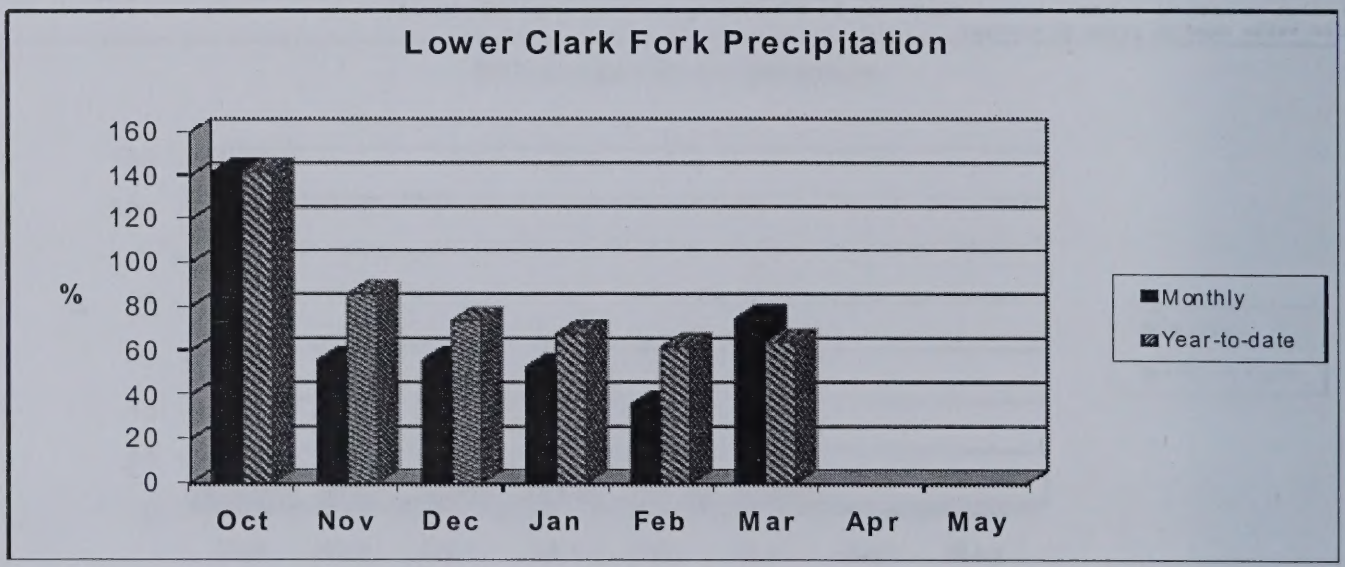
Lower Clark Fork River Basin

March accumulated snow water was 79 percent of average. Snowpack conditions in the Lower Clark Fork River Basin were well below average and decreased 1 percent from March 1. Snow water content was 54 percent of average and 58 percent of last year. Snow water content was second lowest of record.



January maximum swe was established in 1997 and minimum swe was in 1977; February maximum swe was in 1972 and minimum swe was in 1977; March maximum swe was in 1972 and minimum was in 2005; April maximum swe was in 1972 and minimum swe was in 2005; May maximum swe was in 1972 and minimum swe was in 1977; and June maximum swe was in 1974 and minimum swe was in 1977. Average is for the period 1971 through 2000.

Mountain precipitation during March was 73 percent of average and 54 percent of last year. Valley precipitation during March was 91 percent of average and 53 percent of last year. Mountain and valley water year precipitation, beginning October 1, 2009, was 64 percent of average and 65 percent of last year.



Noxon Rapids storage was 119 percent of average and 103 percent of last year.

Assuming near average precipitation, April through July, streamflows are forecast at 38 to 46 percent of average.

Surface Water Supply Index (SWSI) was -3.2 in the Clark Fork River below Bitterroot River and -3.3 in the Clark Fork River below Flathead River.

LOWER CLARK FORK RIVER BASIN
Streamflow Forecasts - April 1, 2010

Forecast Point	Forecast Period	<<====== Drier ====== Future Conditions ======= Wetter =====>> Chance Of Exceeding * 90% (1000AF)	70% (1000AF)	50% (1000AF)	50% (% AVG.)	30% (1000AF)	10% (1000AF)	30-Yr Avg. (1000AF)
ARK FORK blw Missoula	APR-JUL	655	1030	1280	48	1530	1910	2660
	APR-SEP	755	1160	1440	49	1720	2130	2960
ARK FORK at St. Regis (1)	APR-JUL	790	1460	1770	50	2080	2750	3520
	APR-SEP	920	1650	1980	51	2310	3040	3910
ARK FORK nr Plains (1,2)	APR-JUL	3660	5210	5910	59	6610	8160	10100
	APR-SEP	3950	5700	6490	59	7280	9030	11100
OMPSON nr Thompson Falls	APR-JUL	7.0	40	62	30	84	117	205
	APR-SEP	10.0	45	69	30	93	128	230
OSPECT CREEK at Thompson Falls	APR-JUL	16.0	27	35	30	43	54	116
	APR-SEP	17.0	29	37	30	45	57	124
ARK FK at Whitehorse Rpds (1,2)	APR-JUL	4340	6000	6750	60	7500	9160	11300
	APR-SEP	4800	6660	7500	60	8340	10200	12500

LOWER CLARK FORK RIVER BASIN
Reservoir Storage (1000 AF) - End of March

servoir	Usable Capacity	*** Usable Storage *** This Year	Last Year	Avg
XON RAPIDS	335.0	324.5	316.5	272.9

LOWER CLARK FORK RIVER BASIN
Watershed Snowpack Analysis - April 1, 2010

Watershed	Number of Data Sites	This Year as % of Last Yr	Average
LOWER CLARK FORK BASIN	13	58	54

90%, 70%, 50%, 30%, and 10% chances of exceeding are the probabilities that the actual volume will exceed the volumes in the ble.

e average is computed for the 1971-2000 base period.

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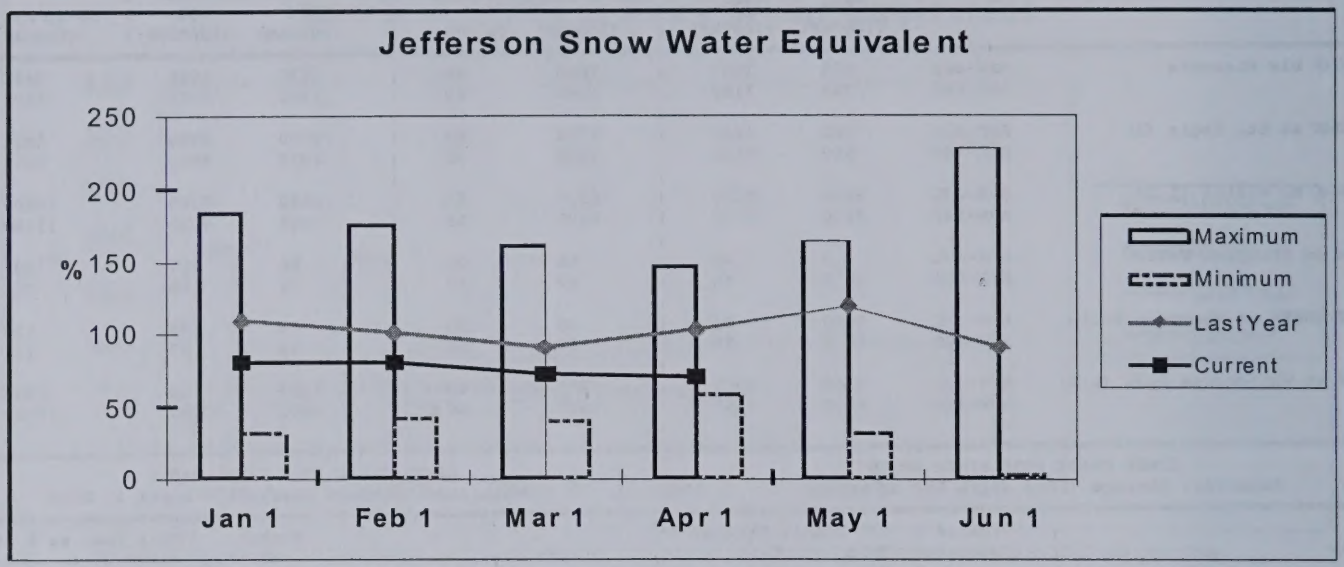
) - Median value used in place of average.

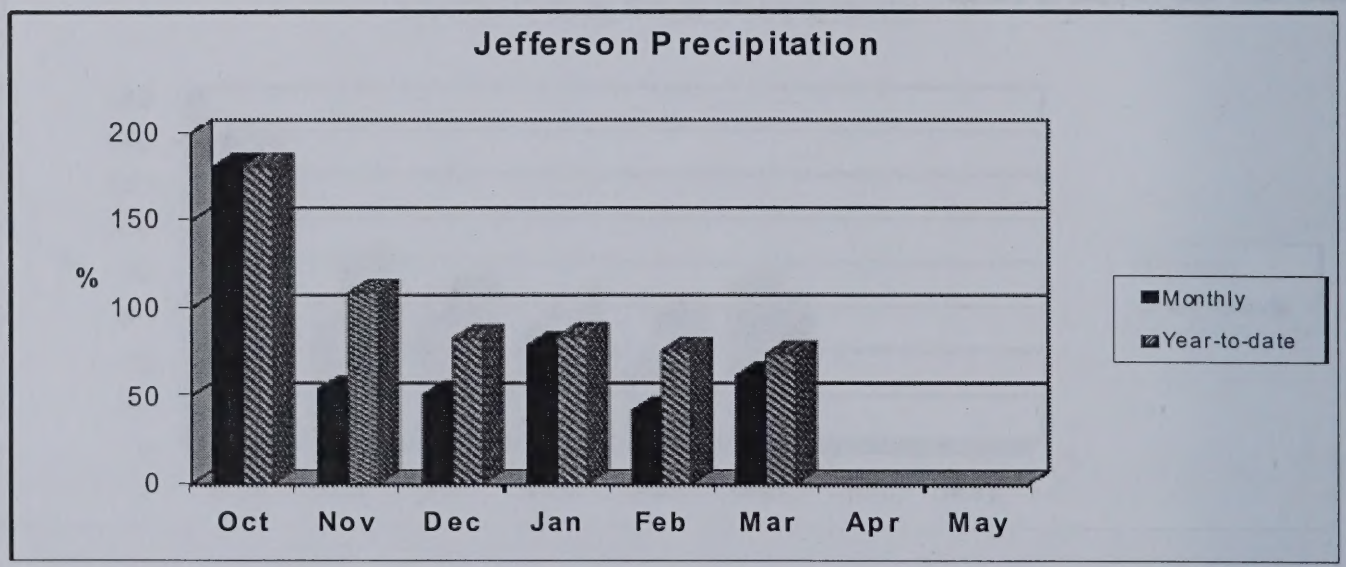
Jefferson River Basin

March accumulated snow water was 68 percent of average. Snowpack conditions in the Jefferson River Basin were below average and decreased 2 percent from March 1. Snow water content was 70 percent of average and 68 percent of last year. Snow water content was tied for fourth lowest of record. The Beaverhead basin was tied for third lowest of record with 2001, 2005, and 1994. The Big Hole basin was third lowest of record.



January maximum swe was established in 1997 and minimum swe was in 1977; February maximum swe was in 1997 and minimum was in 1977; March maximum swe was in 1972 and minimum was in 1977; April maximum swe was in 1997 and minimum was in 1977; May maximum swe was in 1975 and minimum swe was in 1977; and June maximum swe was in 1982 and minimum in 1987. Average is for the period 1971 through 2000.

Mountain precipitation during March was 63 percent of average and 40 percent of last year. Valley precipitation during March was 45 percent of average and 20 percent of last year. Mountain and valley water year precipitation, beginning October 1, 2009, was 74 percent of average and 65 percent of last year.



Lima storage was 116 percent of average and 121 percent of last year; Clark Canyon storage was 111 percent of average and 131 percent of last year; and Ruby River storage was 97 percent of average and 98 percent of last year.

Assuming near average precipitation, April through July, streamflows are forecast at 34 to 46 percent of average.

Surface Water Supply Index (SWSI) was -0.9 in the Beaverhead River; -1.9 in the Ruby River; -2.6 in the Big Hole River; -1.8 in the Boulder River; and -1.3 in the Jefferson River near Three Forks.

JEFFERSON RIVER BASIN
Streamflow Forecasts - April 1, 2010

Forecast Point	Forecast Period	<<====== Drier ====== Future Conditions ======= Wetter =====>> Chance Of Exceeding * 90% (1000AF)	70% (1000AF)	50% (1000AF)	50% (% AVG.)	30% (1000AF)	10% (1000AF)	30-Yr Avg. (1000AF)
MA RESERVOIR Inflow (2)	APR-JUL	27	37	44	46	51	61	96
	APR-SEP	25	37	45	43	53	65	104
ARK CANYON Inflow (2)	APR-JUL	14.0	23	34	26	61	101	131
	APR-SEP	16.0	26	41	26	70	112	156
AVERHEAD RIVER at Barretts (2)	APR-JUL	24	39	60	36	102	165	168
	APR-SEP	29	46	73	37	123	197	200
BY RIVER Reservoir Inflow	APR-JUL	32	45	54	64	63	76	84
	APR-SEP	40	55	66	65	77	92	101
G HOLE RIVER at Wisdom	APR-JUL	17.0	26	42	35	68	107	121
	APR-SEP	18.0	29	46	35	75	117	130
G HOLE RIVER nr Melrose	APR-JUL	125	215	280	46	345	435	610
	APR-SEP	143	245	315	48	385	485	660
FFERSON nr Twin Bridges (2)	APR-JUL	122	172	305	39	440	635	785
	APR-SEP	134	184	335	38	485	710	880
ULDER RIVER nr Boulder	APR-JUL	22	36	46	59	56	70	78
	APR-SEP	22	38	49	58	60	76	85
LLOW CREEK Reservoir Inflow	APR-JUL	3.0	7.6	10.7	60	13.8	18.4	17.9
	APR-SEP	3.4	8.5	12.0	60	15.5	21	20
FFERSON RIVER nr Three Forks (2)	APR-JUL	138	205	345	44	485	685	780
	APR-SEP	146	210	365	42	520	745	860

JEFFERSON RIVER BASIN
Reservoir Storage (1000 AF) - End of March

servoir	Usable Capacity	*** Usable Storage *** This Year	Last Year	Avg
MA	84.0	45.4	37.4	39.1
ARK CANYON	255.6	168.0	128.4	152.0
BY RIVER	38.8	30.4	30.9	31.5

JEFFERSON RIVER BASIN
Watershed Snowpack Analysis - April 1, 2010

Watershed	Number of Data Sites	This Year as % of Last Yr	Average
BEAVERHEAD	18	64	68
RUBY	11	83	82
BIGHOLE	20	60	63
BOULDER	9	74	74
JEFFERSON RIVER BASIN	48	68	70

90%, 70%, 50%, 30%, and 10% chances of exceeding are the probabilities that the actual volume will exceed the volumes in the ble.

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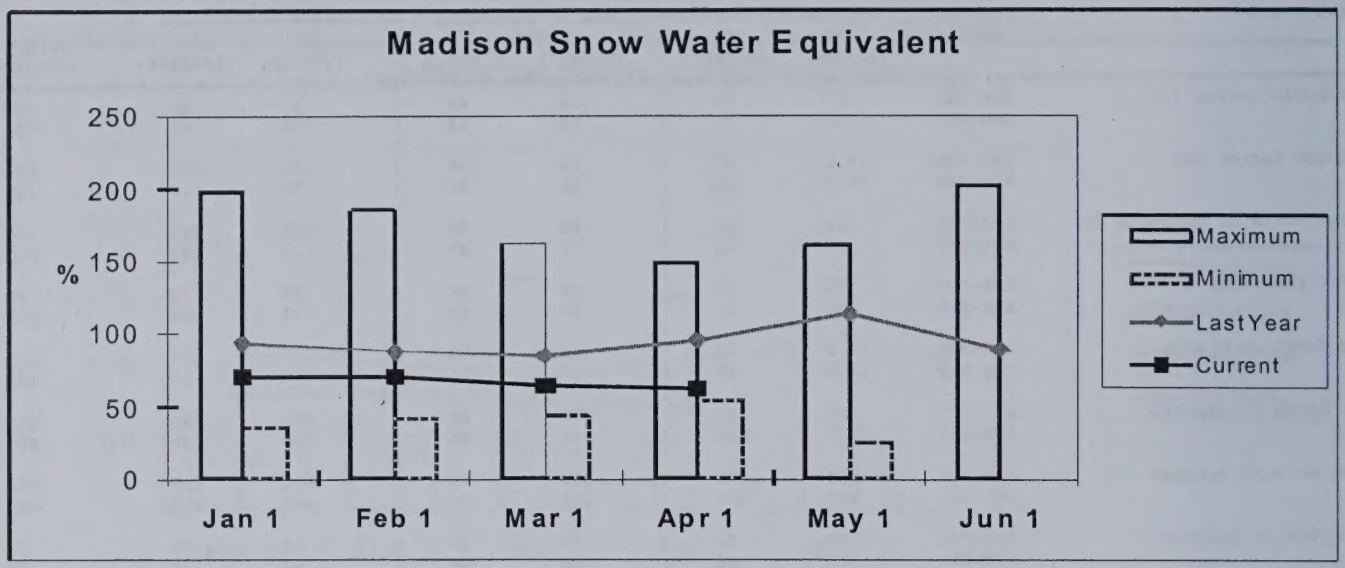
- Median value used in place of average.

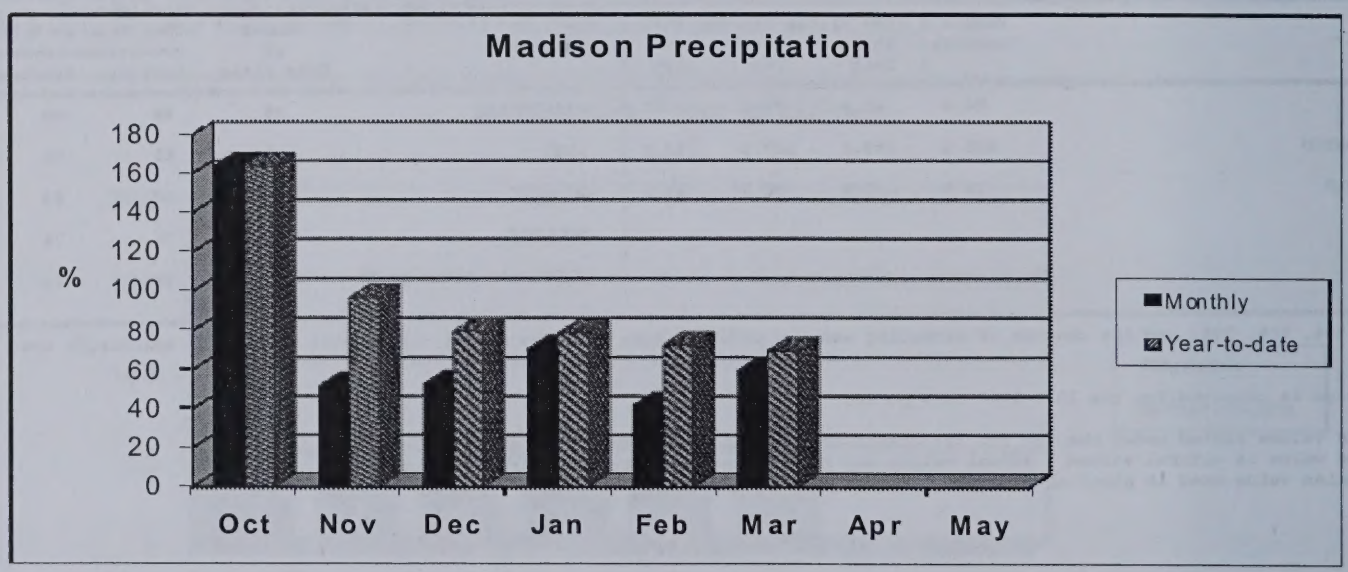
Madison River Basin

March accumulated snow water was 61 percent of average. Snowpack conditions in the Madison River Basin were well below average and decreased 1 percent from March 1. Snow water content was 63 percent of average and 65 percent of last year. Snow water content was tied for third lowest of record with 1963.



January maximum swe was established in 1997 and minimum swe was in 1977; February maximum swe was in 1997 and minimum was in 1977; March maximum swe was in 1997 and minimum was in 1977; April maximum swe was in 1997 and minimum was in 1977; May maximum swe was in 1997 and minimum swe was in 1977; and June maximum swe was in 1995 and minimum in 2001. Average is for the period 1971 through 2000.

Mountain and valley precipitation during March was 60 percent of average and 38 percent of last year. Mountain and valley water year precipitation, beginning October 1, 2009, was 70 percent of average and 66 percent of last year.



Ennis Lake storage was 96 percent of average and 103 percent of last year and Hebgen Lake storage was 110 percent of average and 103 percent of last year.

Assuming near average precipitation, April through July, streamflows are forecast at 56 to 62 percent of average.

Surface Water Supply Index (SWSI) was -2.8 for the Madison River.

MADISON RIVER BASIN
Streamflow Forecasts - April 1, 2010

Forecast Point	Forecast Period	<<====== Drier ====== Future Conditions ======= Wetter =====>> Chance Of Exceeding * 90% (1000AF)	70% (1000AF)	50% (1000AF)	50% (% AVG.)	30% (1000AF)	10% (1000AF)	30-Yr Avg. (1000AF)
BGEN Reservoir Inflow	APR-JUL	199	230	250	63	270	300	395
	APR-SEP	265	300	325	64	350	385	505
NIS Reservoir Inflow (2)	APR-JUL	290	360	410	60	460	530	680
	APR-SEP	390	470	525	62	580	660	850

MADISON RIVER BASIN
Reservoir Storage (1000 AF) - End of March

servoir	Usable Capacity	*** Usable Storage *** This Year	Last Year	Avg
NIS LAKE	41.0	29.9	28.9	31.2
BGEN LAKE	377.5	301.6	284.4	259.6

MADISON RIVER BASIN
Watershed Snowpack Analysis - April 1, 2010

Watershed	Number of Data Sites	This Year as % of Last Yr	This Year as % of Average
MADISON abv HEBGEN LAKE	6	58	54
MADISON blw HEBGEN LAKE	12	70	69
MADISON RIVER BASIN	18	65	63

90%, 70%, 50%, 30%, and 10% chances of exceeding are the probabilities that the actual volume will exceed the volumes in the ble.

e average is computed for the 1971-2000 base period.

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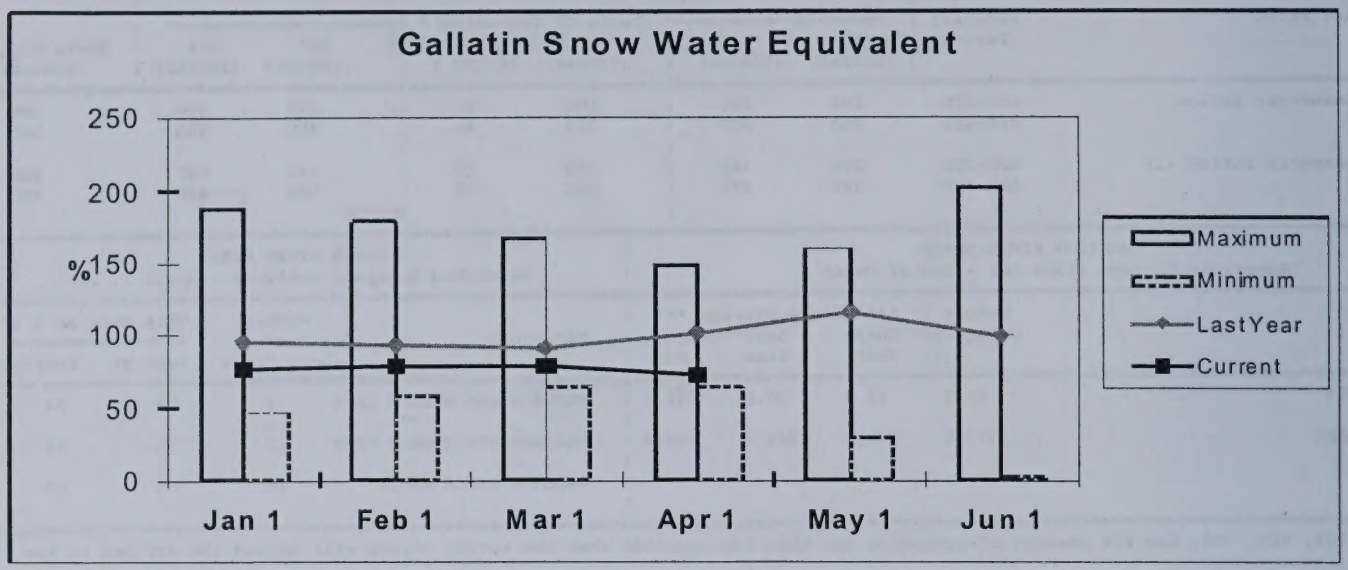
) - The value is natural volume - actual volume may be affected by upstream water management.
) - Median value used in place of average.

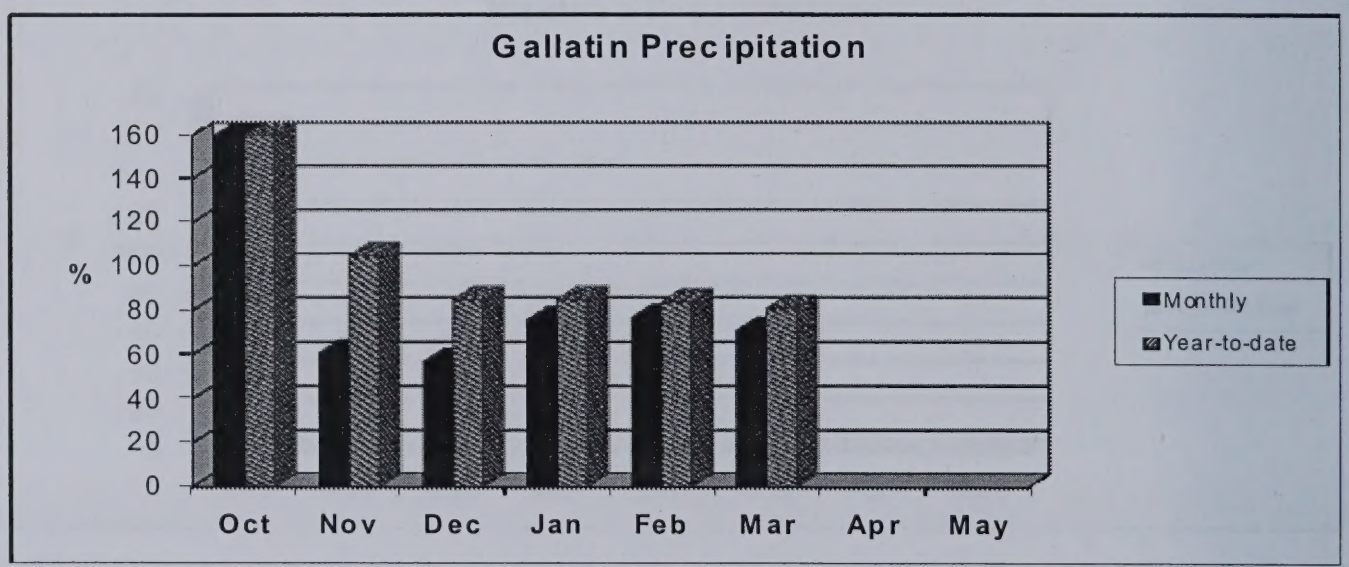
Gallatin River Basin

March accumulated snow water was 70 percent of average. Snowpack conditions in the Gallatin River Basin were below average and decreased 6 percent from March 1. Snow water content was 73 percent of average and 72 percent of last year. Gallatin basin was tied for fourth lowest of record with 2005, 1981, and 1992.



January maximum swe was established in 1997 and minimum swe was in 1966; February maximum swe was in 1997 and minimum was in 1977; March maximum swe was in 1997 and minimum was in 1977 and 2005; April maximum swe was in 1997 and minimum was in 2001; May maximum swe was in 1970 and minimum swe was in 1987; and June maximum swe was in 1975 and minimum in 2001. Average is for the period 1971 through 2000.

Mountain precipitation during March was 69 percent of average and 44 percent of last year. Valley precipitation during March was 89 percent of average and 53 percent of last year. Mountain and valley water year precipitation, beginning October 1, 2009, was 107 percent of average and 96 percent of last year.



Middle Creek storage was 143 percent of average and 103 percent of last year.

Assuming near average precipitation, April through July, streamflows are forecast at 61 to 71 percent of average.

Surface Water Supply Index (SWSI) was -2.5 for the Gallatin River.

GALLATIN RIVER BASIN
Streamflow Forecasts - April 1, 2010

Forecast Point	Forecast Period	<<====== Drier ====== Future Conditions ======= Wetter =====>> Chance Of Exceeding * 90% (1000AF)	70% (1000AF)	50% (1000AF)	50% (% AVG.)	30% (1000AF)	10% (1000AF)	30-Yr Avg. (1000AF)
LLATIN RIVER nr Gateway	APR-JUL	220	275	310	71	345	400	440
	APR-SEP	260	325	365	71	405	470	515
ALITE RESERVOIR Inflow	APR-JUL	14.3	16.3	17.7	81	19.1	21	22
	APR-SEP	16.5	18.6	20	80	21	23	25
LLATIN RIVER at Logan	APR-JUL	142	235	300	61	365	460	495
	APR-SEP	162	270	345	61	420	530	570

GALLATIN RIVER BASIN
Reservoir Storage (1000 AF) - End of March

servoir	Usable Capacity	*** Usable Storage *** This Year	Last Year	Avg
ODLE CREEK	10.2	6.7	6.5	4.7

GALLATIN RIVER BASIN
Watershed Snowpack Analysis - April 1, 2010

Watershed	Number of Data Sites	This Year as % of Last Yr	Average
UPPER GALLATIN	7	63	66
HYALITE	4	77	74
BRIDGER	2	100	98
GALLATIN RIVER BASIN	13	72	73

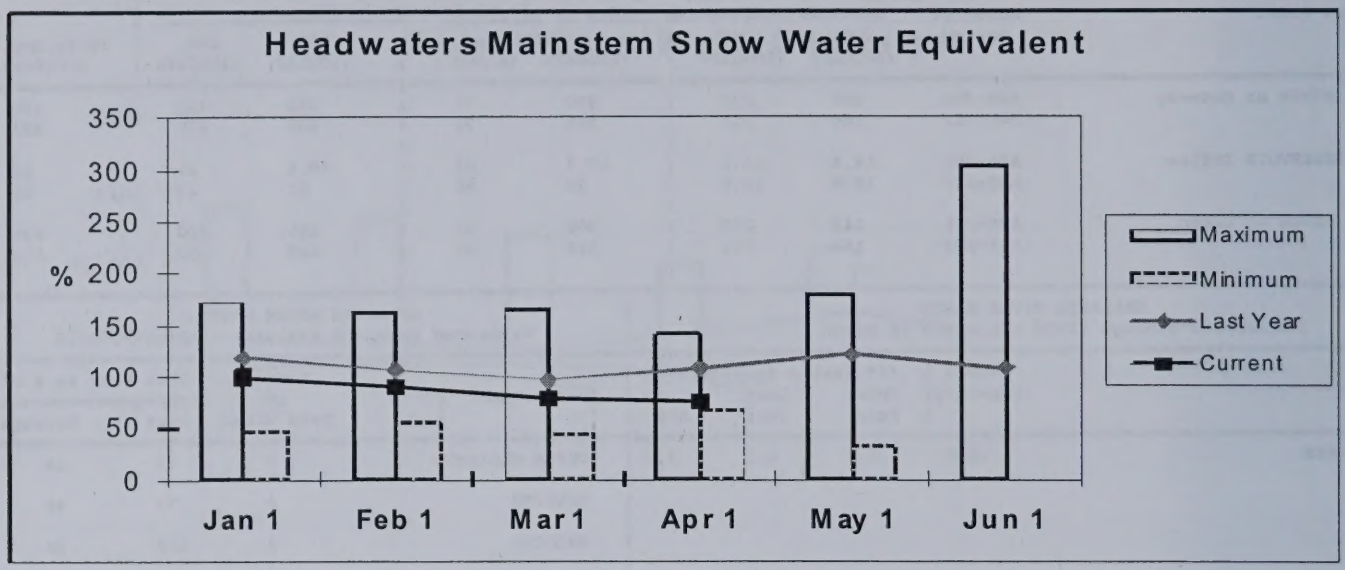
90%, 70%, 50%, 30%, and 10% chances of exceeding are the probabilities that the actual volume will exceed the volumes in the ble.

e average is computed for the 1971-2000 base period.

) - The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.
) - The value is natural volume - actual volume may be affected by upstream water management.
) - Median value used in place of average.

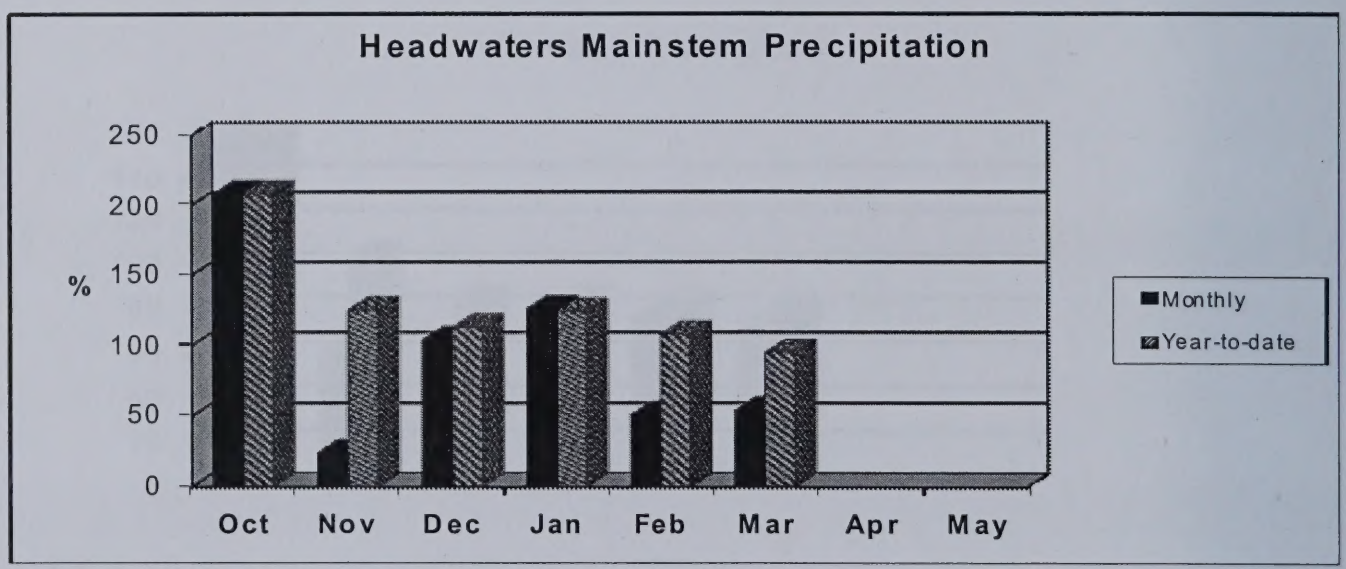
Missouri Mainstem River Basin

Headwaters Missouri Mainstem accumulated March snow water was 67 percent of average. Snowpack conditions in the Headwaters Missouri Mainstem River Basin were below average and decreased 2 percent from March 1. Snow water content was 76 percent of average and 70 percent of last year.



January maximum swe was established in 1997 and minimum swe in 1977; February maximum swe was in 1972 and minimum swe was in 1977; March maximum swe in 1972 and minimum swe was in 1977; April maximum swe was in 1972 and minimum swe was in 1961,1966, and 2005; May maximum swe was in 1975 and minimum swe was in 1977; and June maximum swe was in 1975 and minimum swe was in 1992. Average is for the period 1971 through 2000.

Mountain precipitation during March was 65 percent of average and 38 percent of last year. Valley precipitation during March was 35 percent of average and 30 percent of last year. Mountain and valley water year precipitation, beginning October 1, 2009, was 95 percent of average and 75 percent of last year.



Canyon Ferry Lake storage was 107 percent of average and 103 percent of last year; Helena Valley storage was 115 percent of average and 98 percent of last year; Lake Helena storage was not available; Hauser & Helena storage was 114 percent of average and 96 percent of last year; Holter Lake storage was 110 percent of average and 100 percent of last year; and Fort Peck Lake storage was 87 percent of average and 120 percent of last year.

Assuming near average precipitation, April through July, streamflows are forecast at 39 to 52 percent of average.

Surface Water Supply Index (SWSI) was -2.6 in the Missouri River above Canyon Ferry; -3.3 in the Missouri River below Canyon Ferry; -1.5 in the Missouri River above Fort Peck; and -1.8 in the Missouri River below Fort Peck.

MISSOURI MAINSTEM RIVER BASIN
Streamflow Forecasts - April 1, 2010

Forecast Point	Forecast Period	<<====== Drier ====== Future Conditions ======= Wetter =====>> Chance Of Exceeding * 90% (1000AF)	70% (1000AF)	50% (1000AF)	50% (% AVG.)	30% (1000AF)	10% (1000AF)	30-Yr Avg. (1000AF)
SSOURI RIVER at Toston (2)	APR-JUL	330	770	1000	49	1230	1660	2050
	APR-SEP	380	880	1160	49	1440	1940	2390
ARBORN nr Craig	APR-JUL	23	38	57	47	76	105	121
	APR-SEP	25	43	63	50	83	114	125
SSOURI RIVER at Fort Benton (2)	APR-JUL	720	1300	1700	57	2100	2660	2990
	APR-SEP	840	1550	2020	57	2490	3190	3570
SSOURI RIVER at Virgelle (2)	APR-JUL	770	1440	1900	55	2360	3030	3450
	APR-SEP	890	1690	2230	55	2770	3570	4060
SSOURI RIVER nr Landusky (2)	APR-JUL	710	1430	1920	52	2410	3130	3690
	APR-SEP	815	1670	2250	52	2830	3690	4350
SSOURI RIVER below Fort Peck (2)	APR-JUL	755	1480	1980	53	2480	3200	3740
	APR-SEP	855	1710	2280	53	2850	3710	4330
KE SAKAKAWEA Inflow (2)	APR-JUL	1850	3870	5160	53	6450	8350	9740
	APR-SEP	2180	4410	5890	53	7370	9600	11200

MISSOURI MAINSTEM RIVER BASIN
Reservoir Storage (1000 AF) - End of March

servoir	Usable Capacity	*** Usable Storage *** This Year	Last Year	Avg
NYON FERRY LAKE	2043.0	1571.0	1519.0	1467.8
LENA VALLEY	9.2	4.5	4.6	3.9
KE HELENA		NO REPORT		
USER & HELENA	74.6	71.6	74.8	62.8
LTER LAKE	81.9	81.3	81.0	74.1
RT PECK LAKE	18910.0	13050.0	10913.0	14966.0

MISSOURI MAINSTEM RIVER BASIN
Watershed Snowpack Analysis - April 1, 2010

Watershed	Number of Data Sites	This Year as % of Last Yr	Average
HEADWATERS MAINSTEM	9	70	76
SMITH-JUDITH-MUSSELSHELL	18	86	90
SUN-TETON-MARIAS	14	54	48
MAINSTEM ab FT PECK RES	40	72	70
MILK RIVER BASIN	3	60	71
MISSOURI MAINSTEM BASIN	42	73	72

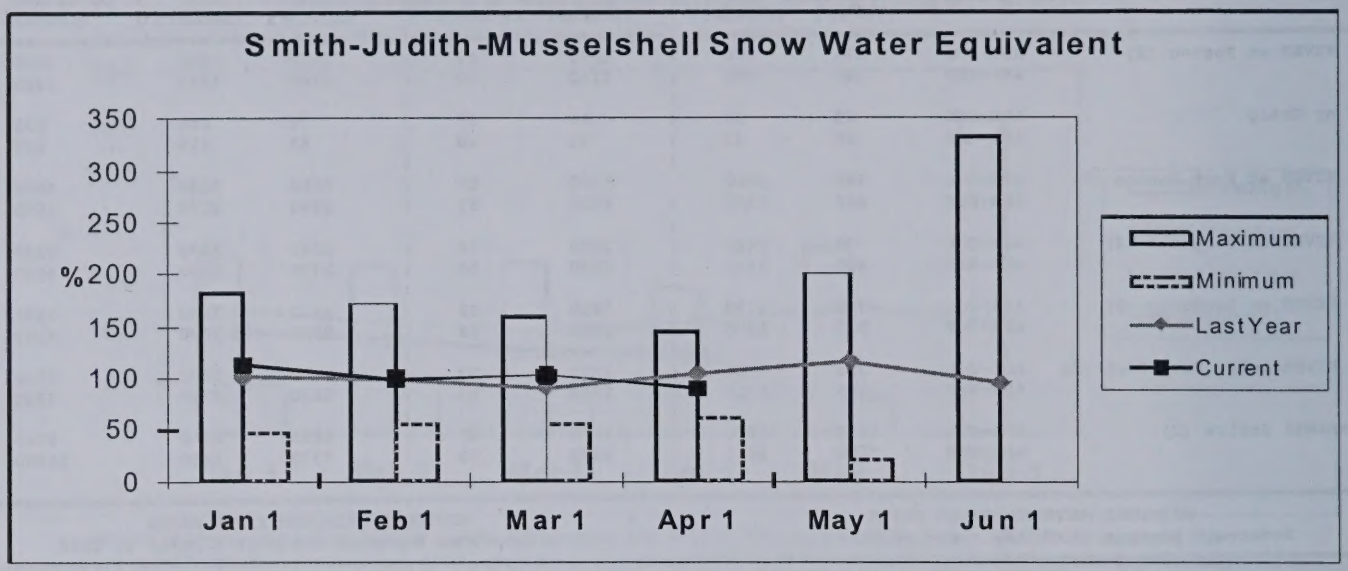
90%, 70%, 50%, 30%, and 10% chances of exceeding are the probabilities that the actual volume will exceed the volumes in the ble.

e average is computed for the 1971-2000 base period.

) - The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.
) - The value is natural volume - actual volume may be affected by upstream water management.
) - Median value used in place of average.

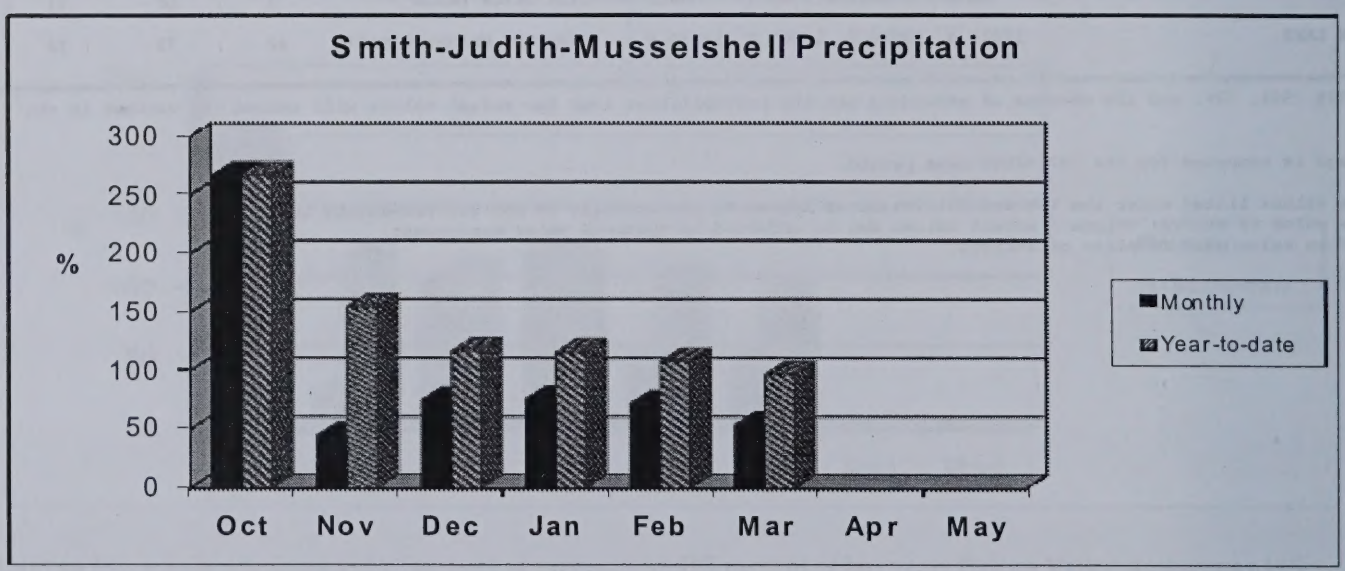
Smith-Judith-Musselshell River Basins

March accumulated snow water was 67 percent of average. Snowpack conditions in the Smith-Judith-Musselshell River Basins were near average and decreased 13 percent from March 1. Snow water content was 90 percent of average and 86 percent of last year. Snow water content in the Smith River Basin was 85 percent of average and 84 percent of last year; the Judith River Basin was 99 percent of average and 101 percent of last year; and the Musselshell Basin River was 79 percent of average and 71 percent of last year.



January maximum swe was established in 1997 and minimum swe in 1988; February maximum swe was in 1978 and minimum swe was in 1987; March maximum swe was in 1978 and minimum swe was in 1987 and 2005; April maximum swe was in 1970 and minimum swe was in 1992; and May maximum swe was in 1970 and minimum swe was in 1987; and June maximum swe was in 1967 and minimum swe was in 1987, 1992, 1994, and 2001. Average is for the period 1971 through 2000.

Mountain and valley precipitation during March in the Smith-Belts was 77 percent of average and 50 percent of last year; in the Judith was 36 percent of average and 32 percent of last year; and in the Musselshell was 28 percent of average and 19 percent of last year. Mountain and valley water year precipitation, beginning October 1, 2009, was 97 percent of average and 86 percent of last year.



Smith River storage was 100 percent of average and 90 percent of last year; Ackley storage was 128 percent of average and 273 percent of last year; Bair storage was 102 percent of average and 164 percent of last year; Martinsdale storage was 160 percent of average and 198 percent of last year; and Deadman's Basin was 90 percent of average and 98 percent of last year.

Assuming near average precipitation, April through July, streamflows are forecast at 48 to 66 percent of average.

Surface Water Supply Index (SWSI) was -1.0 in the Smith River, +2.2 in the Upper Judith River, and +0.1 in the Musselshell River.

SMITH-JUDITH-MUSSELSHELL RIVER BASINS
Streamflow Forecasts - April 1, 2010

Forecast Point	Forecast Period	<<====== Drier ====== Future Conditions ======= Wetter =====>> Chance Of Exceeding * 90% (1000AF)	70% (1000AF)	50% (1000AF)	50% (% AVG.)	30% (1000AF)	10% (1000AF)	30-Yr Avg. (1000AF)
EEP CREEK nr White Sulphur Spgs.	APR-JUL	7.5	10.7	12.9	75	15.1	18.3	17.1
	APR-SEP	8.4	12.3	15.0	75	17.7	22	20
ITH RIVER bl Eagle Creek (2)	APR-JUL	33	64	85	64	106	137	133
	APR-SEP	32	69	95	64	121	158	149
MUSSELSHELL nr Delpine	APR-JUL	1.5	2.6	3.4	74	4.2	5.3	4.6
	APR-SEP	1.9	3.2	4.1	76	5.0	6.3	5.4
MUSSELSHELL abv Martinsdale	APR-JUL	14.4	25	36	69	47	63	52
	APR-SEP	15.6	27	39	70	51	69	56
SSELSHELL at Harlowton (2)	APR-JUL	19.2	28	48	62	68	99	77
	APR-SEP	20	28	50	62	72	105	81
SSELSHELL nr Roundup (2)	APR-JUL	19.2	33	48	49	90	153	99
	APR-SEP	20	33	49	48	91	153	102

SMITH-JUDITH-MUSSELSHELL RIVER BASINS
Reservoir Storage (1000 AF) - End of March

servoir	Usable Capacity	*** Usable Storage *** This Year	Last Year	Avg
ITH RIVER	10.6	7.4	8.2	7.4
KLEY LAKE	7.0	4.1	1.5	3.2
IR	7.0	4.6	2.8	4.5
RTINSDALE	23.1	17.4	8.8	10.9
ADMAN'S BASIN	72.2	49.0	50.1	54.2

SMITH-JUDITH-MUSSELSHELL RIVER BASINS
Watershed Snowpack Analysis - April 1, 2010

Watershed	Number of Data Sites	This Year as % of Last Yr	Average
SMITH	9	84	85
HIGHWOOD	0	133	0
JUDITH	8	101	99
MUSSELSHELL	8	71	79
SMITH-JUDITH-MUSSELSHELL	18	86	90

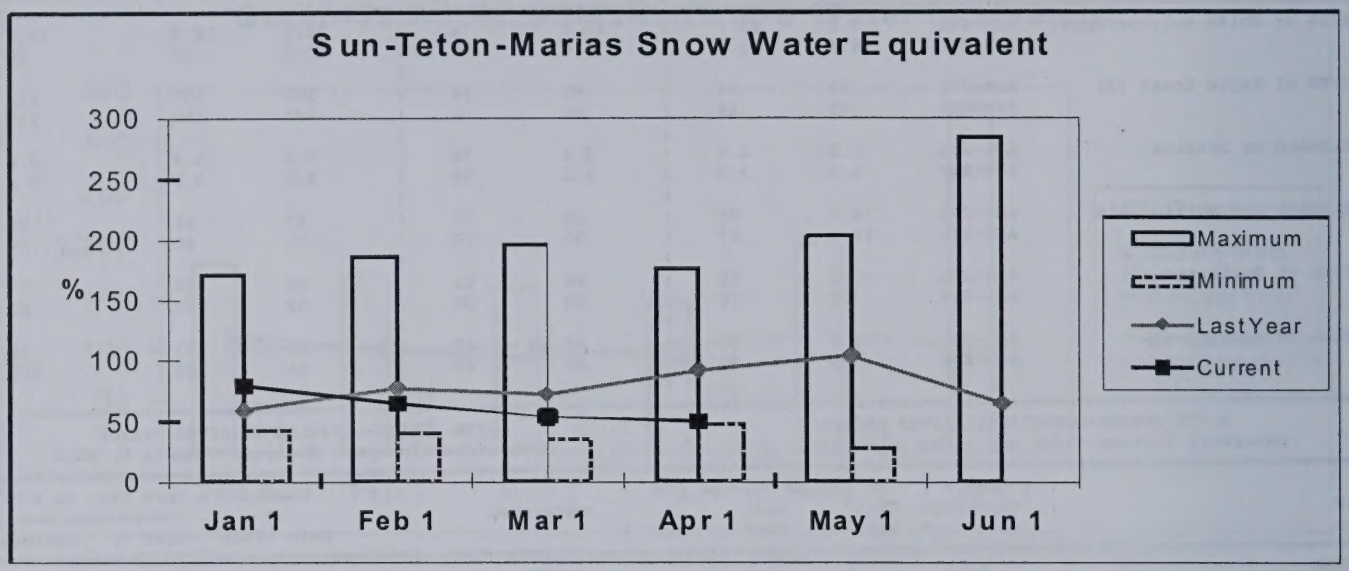
90%, 70%, 50%, 30%, and 10% chances of exceeding are the probabilities that the actual volume will exceed the volumes in the ble.

e average is computed for the 1971-2000 base period.

) - The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.
) - The value is natural volume - actual volume may be affected by upstream water management.
) - Median value used in place of average.

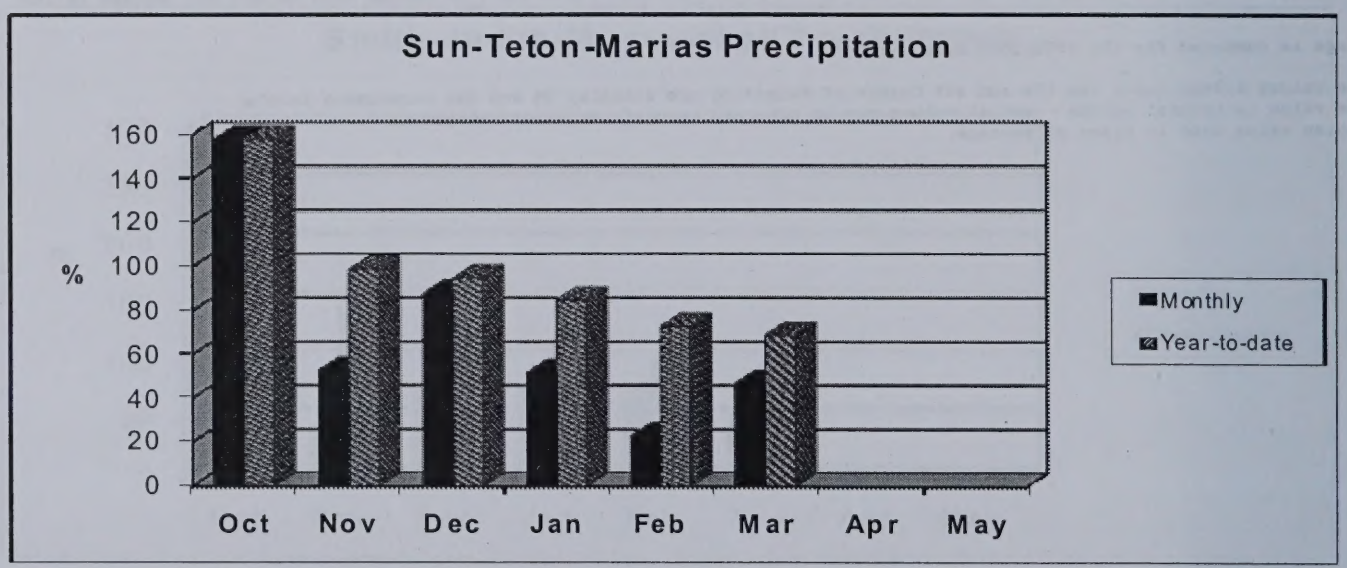
Sun-Teton-Marias River Basins

March accumulated snow water was 47 percent of average. Snowpack conditions in the Sun-Teton-Marias River Basins were well below average and decreased 4 percent from March 1. Snow water content was 50 percent of average and 55 percent of last year. Snow water content in the Sun River Basin was 44 percent of average and 47 percent of last year and set a new record low snow water content; the Teton River Basin was 52 percent of average and 58 percent of last year and snow water content was second lowest of record; and the Marias River Basin was 50 percent of average and 59 percent of last year and snow water content was second lowest of record.



January maximum swe was established in 1997 and minimum swe was in 1988; February maximum swe was in 1972 and minimum swe was in 2001; March maximum swe was in 1972 and minimum swe was in 2005; April maximum swe was in 1972 and minimum swe was in 2005; May maximum swe was in 1972 and minimum swe was in 1977; and June maximum was in 1972 and minimum swe was in 1987, 1992, and 1998. Average is for the period 1971 through 2000.

Mountain and valley precipitation during March in the Sun was 44 percent of average and 31 percent of last year; in the Teton was 42 percent of average and 31 percent of last year; and in the Marias was 49 percent of average and 36 percent of last year. Mountain and valley water year precipitation, beginning October 1, 2009, was 69 percent of average and 74 percent of last year.



Gibson storage was 52 percent of average and 70 percent of last year; Pishkun storage was 110 percent of average and 106 percent of last year; Willow Creek storage was 113 percent of average and 94 percent of last year; Lower Two Medicine Lake storage was 41 percent of average; Four Horns Lake storage was 40 percent of average; Swift storage was 111 percent of average and 116 percent of last year; Lake Frances storage was 66 percent of average and 74 percent of last year; and Lake Elwell (Tiber) storage was 108 percent of average and 100 percent of last year.

Assuming near average precipitation, April through July, streamflows are forecast at 38 to 49 percent of average.

Surface Water Supply Index (SWSI) was -3.9 in the Sun River; -2.2 in the Teton River; -2.6 in the Birch/Dupuyer Creeks; -3.3 in the Marias above Tiber Reservoir; and -2.7 in the Marias below Tiber Reservoir.

SUN-TETON-MARIAS RIVER BASINS
Streamflow Forecasts - April 1, 2010

Forecast Point	Forecast Period	<<====== Drier ====== Future Conditions ======= Wetter =====>> Chance Of Exceeding * 90% (1000AF)	70% (1000AF)	50% (1000AF)	50% (% AVG.)	30% (1000AF)	10% (1000AF)	30-Yr Avg. (1000AF)
BSON Reservoir Inflow	APR-JUL	148	197	230	50	265	310	460
	APR-SEP	175	230	265	53	300	355	505
O MEDICINE RIVER nr Browning (2)	APR-JUL	74	97	113	55	129	152	205
	APR-SEP	81	106	122	57	138	163	215
DGER CREEK nr Browning	APR-JUL	24	37	46	54	55	68	86
	APR-SEP	27	42	52	55	62	77	95
IFT RESERVOIR Inflow	APR-JUL	22	33	40	63	47	58	64
	APR-SEP	29	41	50	65	59	71	77
PUYER CREEK nr Valier	APR-JUL	2.4	4.0	6.0	43	10.8	17.9	14.0
	APR-SEP	2.7	4.5	6.8	43	12.1	20	15.7
T BANK CREEK nr Browning	APR-JUL	27	39	47	61	55	67	77
	APR-SEP	28	41	50	60	59	72	84
RIAS RIVER nr Shelby (2)	APR-JUL	68	104	170	41	235	335	415
	APR-SEP	70	103	176	40	250	355	440
TON nr Dutton	APR-JUL	4.7	8.9	11.7	23	29	55	51
	APR-SEP	5.5	10.2	13.7	23	33	61	59

SUN-TETON-MARIAS RIVER BASINS
Reservoir Storage (1000 AF) - End of March

servoir	Usable Capacity	*** Usable Storage *** This Year	Last Year	Avg
BSON	99.1	27.7	39.7	53.6
SHKUN	32.0	20.2	19.1	18.3
LLOW CREEK	32.2	26.9	28.6	23.8
WER TWO MEDICINE LAKE		NO REPORT		
UR HORNS LAKE		NO REPORT		
IFT	30.0	19.3	16.6	17.4
KE FRANCES	112.0	45.4	61.6	69.1
KE ELWELL (TIBER)	1347.0	699.0	696.6	645.6

SUN-TETON-MARIAS RIVER BASINS
Watershed Snowpack Analysis - April 1, 2010

Watershed	Number of Data Sites	This Year as % of Last Yr	Average
SUN	7	47	44
TETON	4	58	52
MARIAS	6	59	50
SUN-TETON-MARIAS	15	55	50

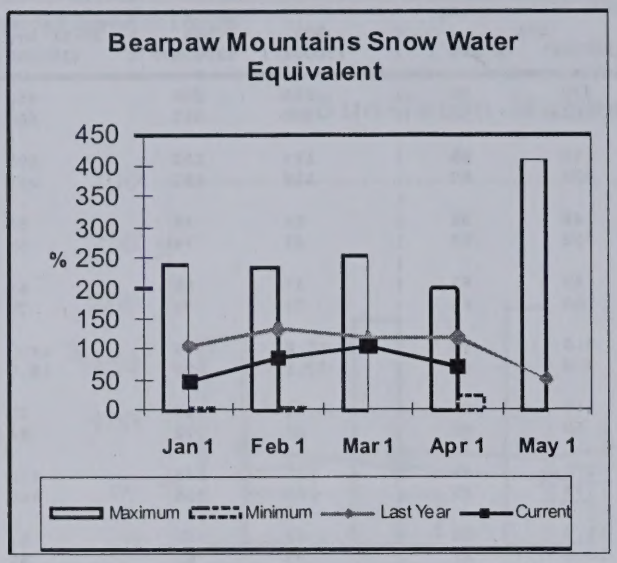
90%, 70%, 50%, 30%, and 10% chances of exceeding are the probabilities that the actual volume will exceed the volumes in the ble.

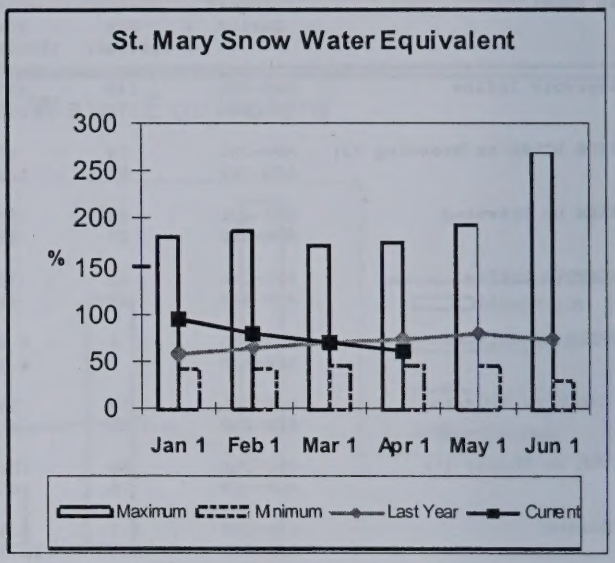
e average is computed for the 1971-2000 base period.

) - The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.
) - The value is natural volume - actual volume may be affected by upstream water management.
) - Median value used in place of average.

St. Mary and Milk River Basins

St. Mary accumulated March snow water was 73 percent of average. Snowpack in the Saint Mary River Basin was well below average and decreased 10 percent from March 1. Snow water content was 60 percent of average and 71 percent of last year and snow water content was third lowest of record. The Milk River Basin (Bearpaw Mountains) was below average. Snow water content was 71 percent of average and 60 percent of last year.

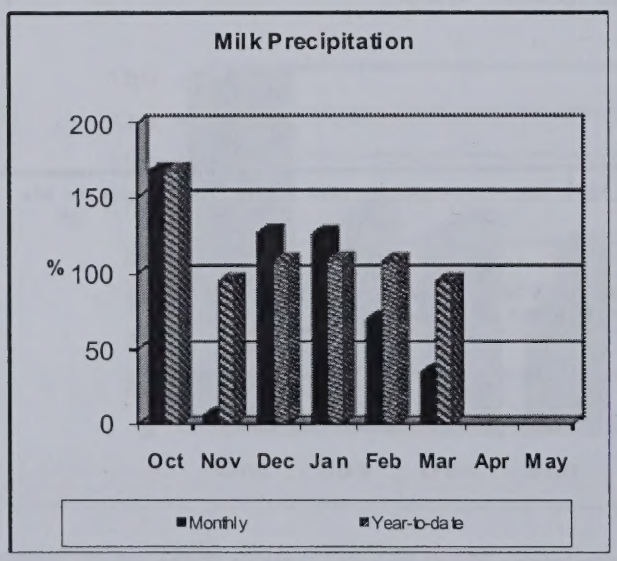


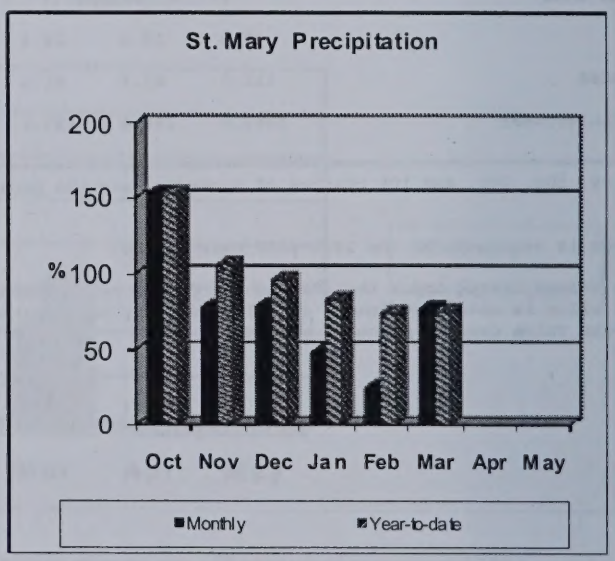


Bearpaw - January maximum swe was established in 1978 and minimum swe was in 1981; February maximum swe was 1978 and minimum was in 1973; March maximum swe was 1978 and minimum swe was 2005; April maximum swe was in 1985 and minimum swe was in 1973, 1983, and 1986; May maximum swe was 1975 and the minimum, 0.0, has occurred in several years. Average is for the period 1971 through 2000.

St. Mary - January maximum swe was established in 1997 and minimum swe was in 1988; February maximum swe was in 1972 and minimum swe was in 2001; March maximum swe was in 1972 and minimum swe was in 2005; April maximum swe was in 1972 and minimum swe was in 2005; May maximum swe was in 19972 and minimum swe was in 1977; and June maximum swe was in 1972 and minimum swe was 1992. Average is for the period 1971 through 2000.

Mountain and valley precipitation in the St. Mary River Basin during March was 77 percent of average and 67 percent of last year; and in the Milk River Basin during March was 35 percent of average and 96 percent of last year. Mountain and valley water year precipitation, beginning October 1, 2009, was 81 percent of average and 94 percent of last year.





Assuming near average precipitation, April through July, streamflows in the St. Mary are forecast at 65 to 71 percent of average and the Milk at 35 to 53 percent of average.

Lake Sherburne storage was 96 percent of average and 57 percent of last year; Fresno storage was 66 percent of average and 84 percent of last year; Beaver Creek storage was not available; and Nelson storage was 140 percent of average and 116 percent of last year.

Surface Water Supply Index (SWSI) was -3.4 for the St. Mary and -0.9 for the Milk River.

ST. MARY and MILK RIVER BASINS
Streamflow Forecasts - April 1, 2010

Forecast Point	Forecast Period	<<====== Drier ====== Future Conditions ======= Wetter =====>> Chance Of Exceeding * 90% (1000AF)	70% (1000AF)	50% (1000AF)	50% (% AVG.)	30% (1000AF)	10% (1000AF)	30-Yr Avg. (1000AF)
KE SHERBURNE Inflow	APR-JUL	62	70	76	72	82	90	105
	APR-SEP	73	82	89	73	96	105	122
. MARY RIVER nr Babb (2)	APR-JUL	210	250	275	71	300	340	385
	APR-SEP	245	290	320	71	350	395	450
. MARY RIVER at US/CAN Border (2)	APR-JUL	215	270	310	71	350	405	435
	APR-SEP	265	325	365	71	405	465	515
LK RIVER @ Western Crossing (3)	APR-JUL	6.5	12.0	16.3	49	21	27	33
	APR-SEP	7.4	13.3	18.4	51	23	31	36
LK RIVER @ Eastern Crossing (2,3)	APR-JUL	12.8	19.3	32	53	49	74	61
	APR-SEP	15.6	23	39	56	57	85	69
AVER CREEK near Havre	APR-JUL	2.0	3.1	4.9	56	6.7	9.4	8.7

ST. MARY and MILK RIVER BASINS
Reservoir Storage (1000 AF) - End of March

servoir	Usable Capacity	*** Usable Storage *** This Year	Last Year	Avg
KE SHERBURNE	64.3	24.8	43.7	25.7
ESNO	127.0	49.3	58.6	75.0
AVER CREEK		NO REPORT		
LSON	66.8	49.8	43.0	35.6

ST. MARY and MILK RIVER BASINS
Watershed Snowpack Analysis - April 1, 2010

Watershed	Number of Data Sites	This Year as % of Last Yr	Average
ST. MARY	3	71	60
BEARPAW MOUNTAINS	3	60	71
CYPRESS HILLS, CANADA	0	0	0
MILK RIVER BASIN	3	60	71
ST. MARY & MILK BASINS	6	69	62

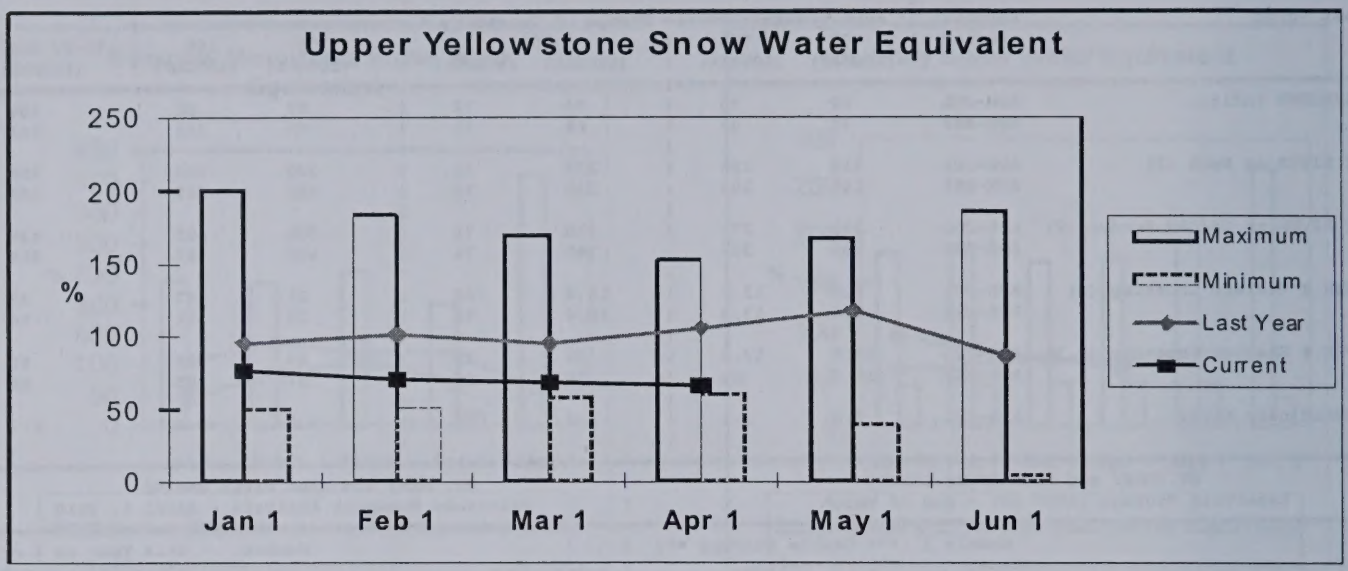
90%, 70%, 50%, 30%, and 10% chances of exceeding are the probabilities that the actual volume will exceed the volumes in the ble.

e average is computed for the 1971-2000 base period.

) - The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.
) - The value is natural volume - actual volume may be affected by upstream water management.
) - Median value used in place of average.

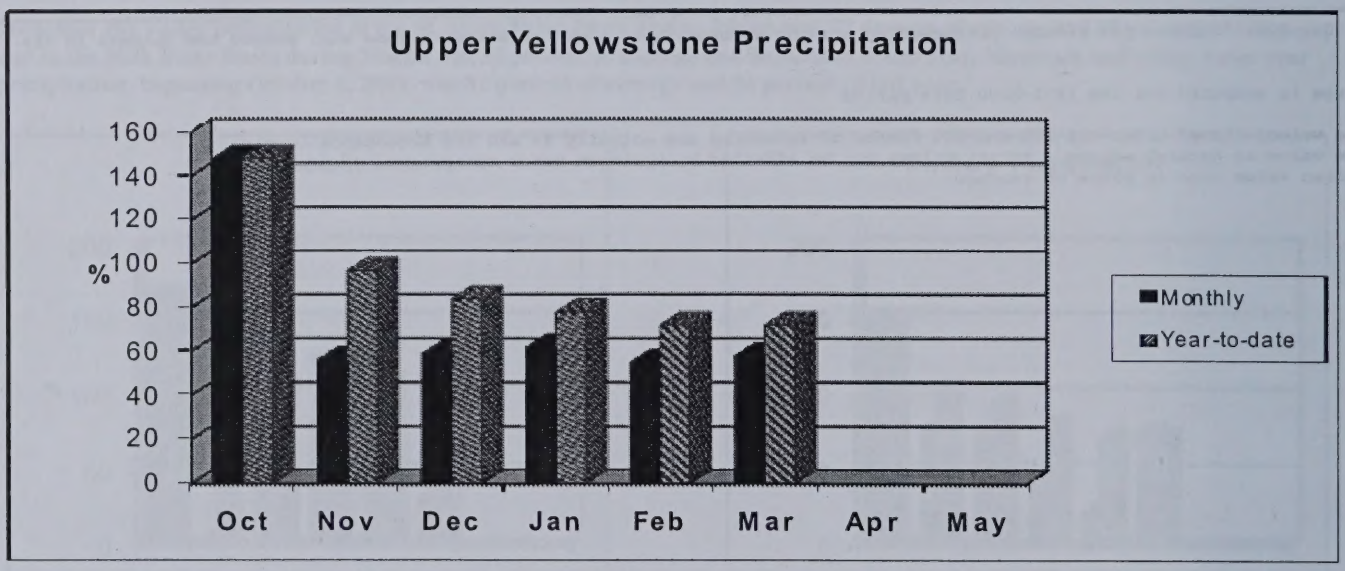
Upper Yellowstone River Basin

March accumulated snow water was 65 percent of average. Snowpack conditions in the Upper Yellowstone River Basin were well below average and decreased 2 percent from March 1. Snow water content was 67 percent of average and 63 percent of last year. Snow water content was third lowest of record.



January maximum swe was established in 1997 and minimum swe was in 1988; February maximum swe was in 1997 and minimum swe was in 2001; March maximum swe was in 1997 and minimum swe was in 2001; April maximum swe was in 1971 and minimum swe was in 2001; May maximum swe was in 1997 and minimum swe was in 1987; and June maximum swe was 1996 and minimum swe was in 2001. Average is for the period 1971 through 2000.

Mountain precipitation during March was 61 percent of average and 41 percent of last year. Valley precipitation during March was 43 percent of average and 27 percent of last year. Mountain and valley water year precipitation, beginning October 1, 2009, was 72 percent of average and 65 percent of last year.



Mystic Lake storage was 122 percent of average and 244 percent of last year and Cooney storage was 110 percent of average and 90 percent of last year.

Assuming near average precipitation, April through July, streamflows are forecast at 57 to 66 percent of average.

Surface Water Supply Index (SWSI) was -3.4 in the Yellowstone River above Livingston; -1.0 in the Shields River; -2.7 in the Boulder River; -3.3 in the Stillwater River; -1.1 in the Rock/Red lodge Creeks; -3.2 in the Clarks Fork River; and -3.3 in the Yellowstone River above Bighorn River.

UPPER YELLOWSTONE RIVER BASIN
Streamflow Forecasts - April 1, 2010

Forecast Point	Forecast Period	<<====== Drier ====== Future Conditions ======= Wetter =====>> Chance Of Exceeding * 90% (1000AF)	70% (1000AF)	50% (1000AF)	50% (% AVG.)	30% (1000AF)	10% (1000AF)	30-Yr Avg. (1000AF)
LLOWSTONE at Lake Outlet	APR-JUL	240	295	335	57	375	430	590
	APR-SEP	315	390	440	55	490	565	805
LLOWSTONE RIVER at Corwin Springs	APR-JUL	765	935	1050	64	1160	1330	1650
	APR-SEP	880	1090	1230	62	1370	1580	1970
LLOWSTONE RIVER near Livingston	APR-JUL	840	1050	1200	63	1350	1560	1900
	APR-SEP	980	1240	1410	62	1580	1840	2280
IELDS RIVER nr Livingston	APR-JUL	34	74	101	70	128	168	145
	APR-SEP	35	80	111	69	142	187	162
ULDER RIVER at Big Timber	APR-JUL	148	188	215	75	240	280	285
	APR-SEP	152	198	230	73	260	310	315
ST ROSEBUD CK nr Roscoe (2)	APR-JUL	37	41	44	73	47	51	60
	APR-SEP	45	52	56	73	60	67	77
ILLWATER RIVER nr Absarokee (2)	APR-JUL	235	290	330	67	370	425	495
	APR-SEP	265	335	380	65	425	495	585
ARKS FORK RIVER nr Belfry	APR-JUL	255	305	340	63	375	425	540
	APR-SEP	265	320	360	61	400	455	595
ONEY RESERVOIR Inflow (2)	APR-JUL	21	27	31	66	35	41	47
	APR-SEP	26	33	38	67	43	50	57
LLOWSTONE RIVER at Billings	APR-JUL	1230	1900	2180	62	2460	3090	3510
	APR-SEP	1460	2200	2540	62	2880	3620	4120

UPPER YELLOWSTONE RIVER BASIN
Reservoir Storage (1000 AF) - End of March

eservoir	Usable Capacity	*** Usable Storage *** This Year	Last Year	Avg
STIC LAKE	21.0	2.2	0.9	1.8
ONEY	27.4	20.2	22.4	18.3

UPPER YELLOWSTONE RIVER BASIN
Watershed Snowpack Analysis - April 1, 2010

Watershed	Number of Data Sites	This Year as % of Last Yr	Average
YELLOWSTONE ab LIVINGSTON	18	59	63
SHIELDS	5	83	90
BOULDER-STILLWATER	7	60	67
RED LODGE-ROCK CREEK	7	67	67
CLARK'S FORK	7	61	63
UPPER YELLOWSTONE BASIN	40	63	67

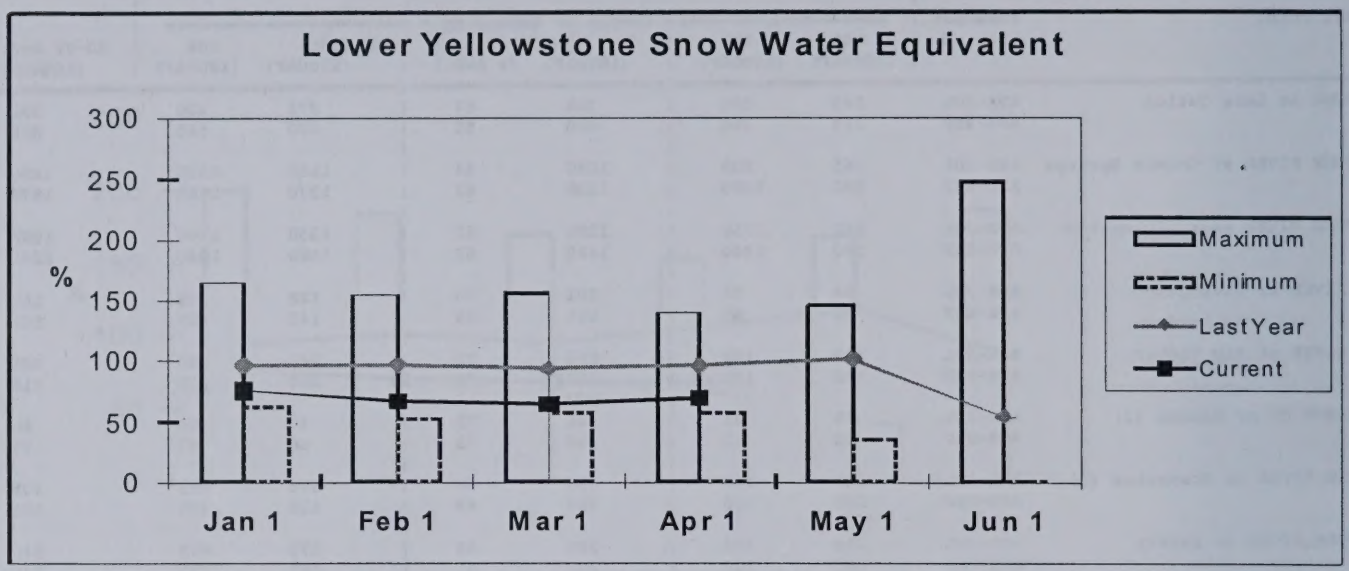
90%, 70%, 50%, 30%, and 10% chances of exceeding are the probabilities that the actual volume will exceed the volumes in the ble.

e average is computed for the 1971-2000 base period.

) - The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.
) - The value is natural volume - actual volume may be affected by upstream water management.
) - Median value used in place of average.

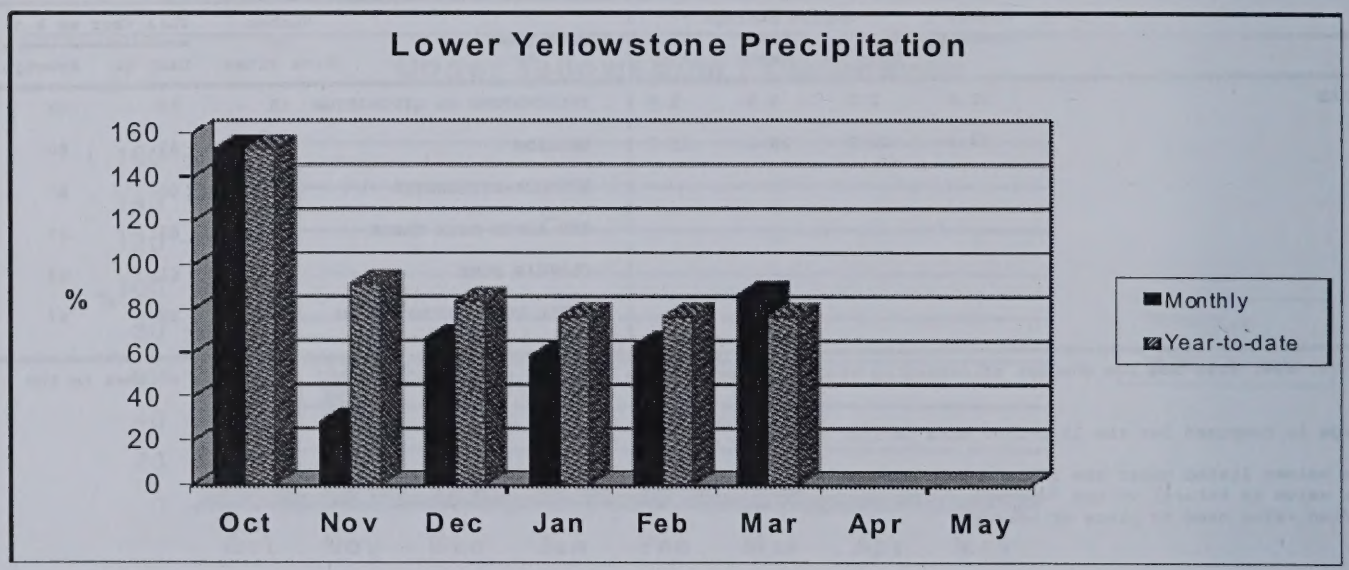
Lower Yellowstone River Basin

March accumulated snow water was 89 percent of average. Snowpack conditions in the Lower Yellowstone River Basin were well below average and increased 5 percent from March 1. Snow water content was 70 percent of average and 72 percent of last year. Snow water content was fourth lowest of record.



January maximum swe was established in 1997 and minimum swe was in 2000; February maximum swe was in 1997 and minimum swe was in 2001; March maximum swe was in 1986 and minimum swe was in 2001; April maximum swe was in 1986 and minimum swe was in 2001; May maximum swe was in 1997 and minimum swe was in 1981; and June maximum swe was in 1995 and minimum swe was in 2001. Average is for the period 1971 through 2000.

Mountain and valley precipitation during March was 70 percent of average and 53 percent of last year. Mountain and valley water year precipitation, beginning October 1, 2009, was 74 percent of average and 67 percent of last year.



Bighorn Lake storage was 116 percent of average and 103 percent of last year and Tongue River storage was 192 percent of average and 93 percent of last year.

Assuming near average precipitation, April through July, streamflows are forecast at 38 to 53 percent of average.

Surface Water Supply Index (SWSI) was -1.1 in the Bighorn River below Bighorn Lake; -2.4 in the Little Bighorn River; -2.3 in the Yellowstone River below Bighorn River; -2.7 in the Tongue River; and -1.8 in the Powder River.

LOWER YELLOWSTONE RIVER BASIN
Streamflow Forecasts - April 1, 2010

Forecast Point	Forecast Period	<<====== Drier ====== Future Conditions ======= Wetter =====>> Chance Of Exceeding * 90% (1000AF)	70% (1000AF)	50% (1000AF)	50% (% AVG.)	30% (1000AF)	10% (1000AF)	30-Yr Avg. (1000AF)
GHORN RIVER nr St. Xavier (2)	APR-JUL	320	545	790	49	1040	1430	1610
	APR-SEP	340	570	850	48	1130	1550	1760
TTLE BIGHORN RIVER nr Hardin	APR-JUL	33	61	78	61	95	124	128
	APR-SEP	37	69	88	61	107	139	144
NGUE RIVER nr Dayton (2)	APR-JUL	36	52	63	66	74	90	96
	APR-SEP	42	60	72	66	84	102	109
G GOOSE CREEK nr Sheridan	APR-JUL	14.1	24	30	58	36	46	52
	APR-SEP	17.7	27	34	57	41	50	60
TTLE GOOSE CREEK nr Big Horn	APR-JUL	11.1	17.0	21	62	25	31	34
	APR-SEP	15.2	22	26	62	30	37	42
NGUE RIVER RESERVOIR Inflow (2)	APR-JUL	46	75	115	52	155	215	220
	APR-SEP	49	81	123	49	165	230	250
LLOWSTONE RIVER at Miles City (2)	APR-JUL	1660	2590	3060	57	3530	4450	5360
	APR-SEP	1910	2960	3540	57	4120	5160	6210
WDER RIVER at Moorehead	APR-JUL	41	59	102	50	149	215	205
	APR-SEP	46	67	114	50	162	235	230
WDER RIVER nr Locate	APR-JUL	46	68	114	49	170	250	235
	APR-SEP	50	73	124	48	184	270	260
LLOWSTONE RIVER nr Sidney (2)	APR-JUL	1590	2480	3070	56	3660	4520	5480
	APR-SEP	1850	2750	3490	56	4230	5140	6280

LOWER YELLOWSTONE RIVER BASIN
Reservoir Storage (1000 AF) - End of March

servoir	Usable Capacity	*** Usable Storage *** This Year	Last Year	Avg
GHORN LAKE	1356.0	943.4	917.0	809.9
NGUE RIVER	79.1	57.7	62.1	30.1

LOWER YELLOWSTONE RIVER BASIN
Watershed Snowpack Analysis - April 1, 2010

Watershed	Number of Data Sites	This Year as % of Last Yr	Average
WIND RIVER (Wyoming)	20	80	69
SHOSHONE RIVER (Wyoming)	6	62	61
BIGHORN RIVER (Wyoming)	20	68	70
LITTLE BIGHORN (Wyoming)	3	70	69
TONGUE RIVER (Wyoming)	10	68	71
POWDER RIVER (Wyoming)	9	76	85
LOWER YELLOWSTONE BASIN (	48	72	70

90%, 70%, 50%, 30%, and 10% chances of exceeding are the probabilities that the actual volume will exceed the volumes in the ble.

e average is computed for the 1971-2000 base period.

) - The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.
) - The value is natural volume - actual volume may be affected by upstream water management.
) - Median value used in place of average.

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Montana
Water Supply Outlook Report

Natural Resources Conservation Service
Bozeman, MT